CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
July 28	Ebensburg, Pa.	July 13
July 31	Murdo, S. D.	July 13
Aug. 1	Ogden, Utah	July 27
Aug. 1	Coalport, Pa.	July 20
Aug. 1	Reedley, Cal.	July 20
Aug. 1	Santa Rosa, Cal.	July 20
Aug. 1	Sturgeon Bay, Wis.	July 27
Aug. 2	Oklahoma City, Okla.	July 20
Aug 7	Mitchell, S. D.	July 13
Aug. 7	Okeene, Okla.	July 27
Aug. 7	Altamont, Ill. Adv. July 27.	July 27
Aug. 7	Iron Bridge, Wis.	July 27
Aug. 7	Falls Creek, Pa. Adv. July 27.	July 27
Aug. 8	Walbridge, O.	July 20
Aug. 10	Poughkeepsie, N. Y. Adv. July 27.	July 27
Aug. 10	Benton Harbor, Mich. Adv. July 27.	July 27
Aug. 10	New Orleans, La.	July 27
Aug. 16	Sayreville, N. J. Adv. July 27.	July 27
Aug. 16	Glendive, Mont.	July 27
Aug. 24	Sacramento, Cal. Adv. July 27.	July 27
Aug. 26	Wahalla, N. D.	July 27
Sept. 15	Grants Pass, Ore.	July 27

SEWERS

July 31	St. Charles, Minn.	July 20
July 31	Indianapolis, Ind.	July 13
July 31	Alexandria, Minn.	July 27
Aug. 1	Toronto, Ont.	July 27
Aug. 1	Albany, Ga.	July 27
Aug. 1	Wheeling, W. Va. Adv. July 27.	July 27
Aug. 1	Lake Worth, Fla.	July 13
Aug. 1	Knoxville, Tenn.	July 20
Aug. 1	Sturgeon Bay, Wis.	July 27
Aug. 2	Avon, S. D.	July 13
Aug. 2	Blairstown, Ia.	July 27
Aug. 4	Gregory, S. D.	July 13
Aug. 4	Milwaukee, Wis.	July 27
Aug. 7	Hamilton, Ont.	July 27
Aug. 14	Hondo, Tex.	July 27
Aug. 14	Pensauken, N. J. Adv. July 27.	July 27
Aug. 16	Sayreville, N. J. Adv. July 27.	July 27
Aug. 22	Newark, N. J.	July 27
Aug. 23	Rye, N. Y. Adv. July 27.	July 27

BRIDGES

July 29	Cleveland, O.	July 13
July 31	Ohio	July 20
Aug. 1	Georgia	July 20
Aug. 1	Ft. Lauderdale, Fla.	July 20
Aug. 1	Georgia	July 27
Aug. 1	West Palm Beach, Fla.	July 27
Aug. 4	Seattle, Wash. Adv. June 29, July 6, 20 and 27.	June 29
Aug. 4	Kingman, Kan.	July 20
Aug. 4	New Boston, Tex.	July 27
Aug. 5	Yakima, Wash.	July 27
Aug. 5	Eureka, Cal.	July 27
Aug. 8	Stockton, Cal.	July 20
Aug. 8	Indiana	July 27
Aug. 10	Atlanta, Ga. Adv. July 20 and 27.	July 20
Aug. 10	Columbus, O.	July 20
Aug. 11	Madison, Wis.	July 27
Aug. 14	California	July 27
Aug. 15	Miami, Fla. Adv. July 27.	July 27
Aug. 15	West Virginia Adv. July 27.	July 27
Aug. 16	Ballston Spa, N. Y. Adv. July 27.	July 27
Aug. 29	Wellington, New Zealand	July 13
Sept. 1	Knoxville, Tenn.	July 27
Oct. 1	Siam	July 13
Oct. 31	Sydney, Australia	Jan. 12

EXCAVATION AND DREDGING

Aug. 1	Hampden, Wis.	July 20
Aug. 1	Merced, Cal.	July 20
Aug. 4	Taylorville, Ill.	July 27
Aug. 5	Salisbury, Mo.	July 27
Aug 5	Albert Lea, Minn.	July 27
Aug. 8	Grants Pass, Ore.	July 20
Aug. 10	Wooster, O. Adv. July 13 to 27.	July 13
Aug. 12	Kokomo, Ind. Adv. July 20 and 27.	July 20
Aug. 14	Benton, Mo. Adv. July 20 and 27.	July 20
Aug. 15	Ft. Lauderdale, Fla. Adv. July 13 to 27.	July 13
Aug. 18	Bloomington, Ill. Adv. July 20 and 27.	July 20

STREETS AND ROADS

July 29	Wheeling, W. Va.	July 13
July 29	Lockport, N. Y.	July 20
July 29	Cleveland, O.	July 27
July 31	Eastwood, N. Y. Adv. July 27.	July 27
July 31	Pella, Ia.	July 27
July 31	Greenville, N. C.	July 13
July 31	Washington, Pa. Adv. July 13 to 27.	July 13
July 31	Wash., D. C.	July 20
July 31	Ohio	July 20
July 31	Winona, Minn.	July 20
July 31	Goshen, Ind.	July 20
July 31	Crown Point, Ind.	July 20
July 31	Syracuse, N. Y.	July 27
July 31	Little Rock, Ark.	July 27
July 31	Monroe, Mich.	July 27
Aug. 1	West Palm Beach, Fla.	July 27
Aug. 1	Niagara Falls, N. Y.	July 27
Aug. 1	Michigan	July 27
Aug. 1	San Antonio, Tex.	July 27
Aug. 1	Georgia	July 20
Aug. 1	Georgetown, Tex.	July 20
Aug. 1	Minnesota	July 13
Aug. 1	Oil City, Pa.	July 13
Aug. 1	Quebec	July 20
Aug. 1	Louisiana	July 20
Aug. 1	Centerburg, O.	July 20
Aug. 1	Maryland Adv. July 20 and 27.	July 20
Aug. 1	Saranac Lake, N. Y. Adv. July 20 and 27.	July 27
Aug. 1	Hendersonville, N. C.	July 27
Aug. 1	Atlanta, Ga.	July 27
Aug. 1	Erie, Pa.	July 27
Aug. 1	New York, N. Y.	July 27
Aug. 2	Brooklyn, N. Y.	July 27
Aug. 2	New York, N. Y.	July 27
Aug. 2	Woodland, Cal.	July 20
Aug. 2	South Carolina	July 20
Aug. 2	Minnesota	July 13
Aug. 2	Akron, O.	July 20
Aug. 3	Lenoir, N. C.	July 20
Aug. 3	Albion, Ind.	July 27
Aug. 3	San Marcos, Tex.	July 27
Aug. 4	Wisconsin	July 27
Aug. 4	Michigan	July 27
Aug. 4	Hallstead, Pa. Adv. July 13 to 27.	July 20
Aug. 4	Roswell, N. M.	July 13
Aug. 4	Mt. Holly, N. J. Adv. July 27.	July 27
Aug. 4	Missouri	July 27
Aug. 5	Missouri	July 27
Aug. 5	Lambertville, N. J.	July 27
Aug. 7	Sacramento, Cal.	July 27
Aug. 7	California	July 20
Aug. 7	White Plains, N. Y. Adv. July 20 and 27.	July 27
Aug. 7	Leechburg, Pa. Adv. July 27.	July 27
Aug. 7	San Luis Obispo, Cal.	July 27
Aug. 7	Brownstown, Ind.	July 27
Aug. 7	Catasauqua, Pa.	July 27
Aug. 7	Paoli, Ind.	July 27
Aug. 7	Brazil, Ind.	July 27
Aug. 7	Jasper, Ind.	July 27
Aug. 8	San Rafael, Cal.	July 20
Aug. 8	Crown Point, Ind.	July 27
Aug. 8	Maryland Adv. July 27.	July 27
Aug. 8	Monticello, Ind.	July 27
Aug. 8	Trenton, N. J. Adv. July 27.	July 27
Aug. 8	Millville, N. J. Adv. July 27.	July 27
Aug. 8	Louisiana	July 20
Aug. 8	Washington, Ind.	July 27
Aug. 8	Ontario	July 27
Aug. 8	Savannah, Ga.	July 27
Aug. 8	Napa, Cal.	July 27
Aug. 9	Valparaiso, Ind.	July 27
Aug. 9	Ft. Myers, Fla.	July 27
Aug. 9	Ft. Myers, Fla.	July 6
Aug. 9	Hackensack, N. J. Adv. July 20 and 27.	July 20
Aug. 9	Mays Landing, N. J. Adv. July 27.	July 27
Aug. 10	Woodbury, N. J. Adv. July 20 and 27.	July 20
Aug. 10	Fredericktown, O.	July 20
Aug. 10	South Amboy, N. J. Adv. July 27.	July 27
Aug. 10	Burlington, Vt. Adv. July 27.	July 27
Aug. 10	Quebec	July 27
Aug. 12	Quebec	July 27
Aug. 12	Wheeling, W. Va.	July 27
Aug. 14	California	July 27
Aug. 15	Santa Rosa, Cal.	July 27
Aug. 15	Beaumont, Tex.	July 27
Aug. 15	Wadsworth, O. Adv. July 20 and 27.	July 20
Aug. 15	Alabama	July 27
Aug. 15	Knoxville, Tenn.	July 20
Aug. 17	Henderson, N. C. Adv. July 20 and 27.	July 27
Sept. 19	New Orleans, La.	July 6

BUILDINGS

July 28	Cleveland, O.	July 27
July 29	Southern Pines, N. C.	July 20
July 31	Rocky River, O.	July 27
Aug. 1	Taft, Cal.	July 20
Aug. 2	Perry, N. Y.	July 20
Aug. 2	Berkeley, Cal.	July 13
Aug. 2	Brunswick, Ga.	July 13
Aug. 2	Astoria (Long Island City P. O.), N. Y.	July 27
Aug. 4	Dickinson, N. D.	July 27
Aug. 5	Belfast, Me.	July 13
Aug. 7	Pelham Manor, N. Y. Adv. July 27.	July 27
Aug. 8	Mankato, Minn.	July 27
Aug. 8	Saginaw, Mich.	July 27
Aug. 9	Detroit, Mich.	July 27
Aug. 9	Ogden, Utah	July 27
Aug. 10	Erie, Pa.	July 27
Aug. 10	Pittsburgh, Pa.	July 27
Aug. 10	Mt. Sterling, O.	July 20
Aug. 12	Akron, O.	July 27
Aug. 12	Louisville, O.	July 27
Aug. 14	Cleveland, O.	July 27
Aug. 14	Oakland, Cal.	July 20
Aug. 15	Grandview Heights (Columbus P. O.),	July 20
Aug. 16	Owen Sound, Ont.	July 27
Aug. 20	Erie, Pa.	July 13
Sept. 1	Knoxville, Tenn.	July 20
Sept. 30	Duluth, Minn.	July 13

FEDERAL GOVERNMENT WORK

July 31	Steel Hull — Montgomery, Ala. Adv. July 6 to 27.	July 6
July 31	Hospital, Norfolk, Va.	July 13
July 31	Mechanical Equipment—Norfolk, Va.	July 20
Aug. 1	Cement—Memphis, Tenn. Adv. July 27.	July 27
Aug. 1	Pools—Chicago, Ill.	July 27
Aug. 2	Mortuary—Chelsea, Mass.	July 27
Aug. 2	Refrigerating Plant—Annapolis, Md.	July 27
Aug. 2	Riprap — Staten Island, N. Y.	July 27
Aug. 2	Dredges—Wash., D. C.	June 15
Aug. 2	Ordnance Buildings, etc.—Pearl Harbor, H. T.	June 15
Aug. 2	Distilling Plant—Key West, Fla.	July 13
Aug. 7	Dredging, etc. — New York, N. Y. Adv. July 6, 13 and 27.	July 6
Aug. 7	Dredging—Camden, N. J. Adv. July 13 to 27.	July 13
Aug. 9	Chimney and Flue—Guantanamo, Cuba	July 27
Aug. 10	Tank — Ft. MacKenzie, Wyo.	July 20
Aug. 11	Piping — North Platte, Neb.	July 20
Aug. 12	Timber Turnout, etc.—Klamath Falls, Ore. Adv. July 27.	July 27
Aug. 12	Oil Burning Apparatus — Houston, Tex.	July 27
Aug. 14	Scow—Duluth, Minn. Adv. July 20 and 27.	July 20
Aug. 15	Excavation — Wilmington, Del. Adv. July 20 and 27.	July 20
Aug. 15	Rock Removal — Providence, R. I. Adv. July 20 and 27.	July 20
Aug. 15	Dredging—Galveston, Tex. Adv. July 20 and 27.	July 20
Aug. 15	Stone—New Orleans, La. Adv. July 20 and 27.	July 20
Aug. 15	Electric Pump — St. Louis, Mo.	July 27
Aug. 15	Lighthouse Tender — Wash., D. C.	July 27

Bids Close		See Eng. News-Record
Aug. 16	Wire Partition—San Diego, Cal.	July 27
Aug. 18	Radial Gates, etc.—Riverton, Wyo.	July 13
Aug. 19	**Dredging**—New York, N. Y. Adv. July 20 and 27.	July 20
Aug. 21	Catamarans — Portland, Ore. Adv. July 20 and 27.	July 20
Aug. 21	Dredging—Baltimore, Md. Adv. July 27.	July 27
Aug. 22	Post Office—Spanish Fork, Utah Adv. July 27.	July 27
Aug. 22	Post Office—Fond du Lac, Wis.	July 27
Aug. 23	Retaining Walls — Quantico, Va.	July 27
Aug. 23	Quarrywalls, etc.—Pearl Harbor, H. T.	July 20
Aug. 23	Dredging—Norfolk, Va. Adv. July 27.	July 27
Aug. 30	Circulating Loop — Mare Island, Cal.	July 27
Aug. 31	Canal—Klamath Falls, Ore. Adv. July 27.	July 27
Sept. 1	**Refrigerating Plants—Perryville, Md.** Adv. July 20 and 27.	July 20
Sept. 6	Motors, etc.—Yuma, Ariz. Adv. July 27.	July 27

MISCELLANEOUS

July 31	Paving Brick—Washington, Pa.	July 13
July 31	Wood Blocks, etc.—St. Paul, Minn.	July 27
July 31	Power Plant Equipment—Detroit, Minn.	July 27
Aug. 1	Paving Blocks — Farrell, Pa.	July 20
Aug. 1	Drainage Pumps—New York, N. Y.	July 20
Aug. 1	Seawall—Port Tampa, Fla.	July 27
Aug. 2	Granite Facing Stone — Lincoln, Neb.	July 27
Aug. 3	Transmission Line—Turlock, Cal.	July 20
Aug. 3	Portland Cement—New York, N. Y.	July 27
Aug. 4	Retaining Wall — Trenton, N. J.	July 27
Aug. 6	Mill Type Crane—Aberdeen, Wash. Adv. July 20 and 27.	July 27
Aug. 7	Engines and D. C. Generators —Rome, N. Y.	July 13
Aug. 7	Scarifier Attachment—St. Paul, Minn.	July 20
Aug. 7	Electric Light Equipment — Hanna, Alta.	July 27
Aug. 8	Cement—Napa, Cal.	July 27
Aug. 9	Heating Oil Distributor—Ft. Myers, Fla.	July 27
Aug. 9	Transformers, etc. — San Francisco, Cal.	July 20
Aug. 15	Hydro-electric Development—Dothan, Ala. Adv. June 22 to July 27.	June 29
Aug. 15	Transmission Line, etc.—Hobgood, N. C.	July 27
Aug. 15	Foundation — Minneapolis, Minn.	July 13
Sept. 16	Strain & Pin Type Insulators —Melbourne, Australia Adv. July 27.	July 27

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Le Roy—See "Streets and Roads."

Va., Clarendon—See "Sewers".

N. C., Monroe—Having surveys made for water supply system. $50,000. Carolina Eng. Co., Wilmington, engrs.

N. C., Raleigh—See "Miscellaneous."

N. C., Salisbury—See "Miscellaneous."

O., Columbus—Franklin Co. making plans waterworks system in Sewer Dist. Clinton 2, 12,630 ft. of 6 in., 3,570 ft. of 8 in. and 2,540 ft. of 12 in. c.i. pipe, etc. $40,000. E. G. Bradbury, 174 East Long St., engr. This corrects report in July 13 issue.

O., Dayton—Authorized $50,000 bonds for new water supply system for golf links and greens at community club grounds. I. E. Houk, city engr.

Ill., Jerseyville—Receives bids about Aug. 28, waterworks improvements. $150,000. Fuller & Beard, Chemical Bldg., St. Louis, Mo., engrs.

Wis., Wauwatosa—See "Sewers."

Kan., Satanta—Aug. 7 to vote on $30,000 bond issue for pumping and distributing systems. Total cost $40,000. Ruckel Eng. Co., Interurban Bldg., Hutchinson, engrs.

BIDS DESIRED

N. Y., Poughkeepsie—Aug. 10, by Bd. Pub. Wks., Eastman Park Mansion, c.i. or steel mains and covered reservoir. Hazen, Whipple & Fuller, 30 East 42nd St., New York, consult. engrs.; adv. this issue.

N. J., Sayreville—Aug. 16, by E. E. Clark, mayor, and Boro Council, Boro Hall, waterworks system, steel tower tank and c.i. pipe. W. S. Coulter, 114 Liberty St., New York City, consult. engr.; adv. this issue.

Pa., Falls Creek—Aug. 7, remodeling water treatment plant. Banks & Craig, Telegraph Bldg., Harrisburg, engrs.; adv. this issue.

La., New Orleans—Aug. 10, by Bd. Comrs. of Port of New Orleans, Suite 200 New Court Bldg., boring test wells, Toulouse and Dumaine Sts., 150 ft. deep; foot of Barracks St., 200 ft.; foot of Port St., 150 ft. deep. J. H. Walsh, genl. mgr.; adv. this issue.

Mich., Benton Harbor—Aug. 10, at City Hall, (a) piping and equipment for 2,000,000 gal. per day water softening and purification plant, (b) 2 story superstructure. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, archts.; adv. this issue.

Ill., Altamont—Aug. 7, for waterworks improvements. Fuller & Beard, Ry. Exch. Bldg., St. Louis, Mo., engrs.; adv. this issue.

Wis., Iron Ridge—Aug. 7, (a) 7,500 ft. 4-12 in. water pipe, (b) 10 hydrants, 8 and 6 in. valves, (c) 40,000 gal. tank on 55 ft. tower, complete foundation and erection, (d) pump and motor for 6 in. well, pump to deliver 100 g.p.m. J. Donohue Co., 606 North 8th St., Sheboygan, engrs.

Wis., Sturgeon Bay—Aug. 1, by E. S. Ackermann, city clk., 6,000 ft. 6 in. c.i. mains and connections in various streets. $20,000-$25,000. E. W. Odbert, Egg Harbor, engr.

N. D., Walhalla—Aug. 26, by City auditor, new waterworks and distribution systems, either (a) 920 lin.ft. 6 in. and 100 lin. ft. 8 in. c.i. pipe or (b) 5,800 lin. ft. 6 in. c.i. pipe, well, pump station, elevated steel tank or concrete reservoir. $20,000. C. L. Pillsbury Co., 1200 2nd Ave. S, Minneapolis, Minn., engrs.

Mont., Glendive—Aug. 16, for 7 mi. 4-8 in. c.i. mains, hydrants, specials, etc. $60,000 bonds voted for project. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, Minn., engr. Noted July 13.

Okla., Okeene—Aug. 7, by City Clerk, one well, extending light and power systems. $45,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Tex., Hondo—Aug. 14, 1,500 ft. 30 in. circular storm sewer, incl. 275 cu.yd. concrete, 2,000 cu.yd. trench excav., 260 lin. ft. 15 in. vitr. pipe, etc. Walton & Avneson, 418 Gunter Bldg., San Antonio, engrs. Noted June 8.

Utah, Ogden—Aug. 1, by C. O. De Wolfe, city recdr., laying 43 blocks 12-20 in. steel or c.i. mains. $150,000. W. C. Craven, city engr. Noted July 6.

Ore., Grants Pass—Sept. 15, by Bd. Dirs. Grants Pass Irrigation Dist., 2 centrifugal pumps, one with 45 hp. motor, 9,000 g.p.m. 154 ft. head and other 200 hp. motor, 4,500 g.p.m. 141 ft. head, direct connected units equipped with automatic compensators. $7,000. Bids soon for 2,000 ft. 34 in. and 900 ft. 24 in. pipe. J. H. Fertig, Grants Pass, engr.

Cal., Sacramento—Aug. 24, at office H. G. Denton, city clk., rapid sand filtration plant and appurtenances, contr. 24; adv. this issue.

Ont., Alvinston—Receiving bids pumphouse and electric driven centrifugal pumps, about 1,000 and 500 g.p.m. J. Irving, clk.

BIDS RECEIVED

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., opened bids June 27, furnishing, installing and connecting all steam, exhaust, water suction and discharge piping from 8-30 in. with valves, etc., for 3 high pressure turbine pumping units in Col. Ward Pumping Station, from M. J. Dougherty Co., 25th and Washington Sts., Phila., $16,000; J. O'Connor, 98 West Delavan Ave., $16,974; Power Efficiency Corp., White Bldg., $18,250. Noted June 22.

N. Y., Saugerties—Bd. Water Comrs., Market St., opened bids July 19, excavating about 30,000 cu.yd. material, also excavating and laying about 1,800 ft. 18 in. temporary main at Blue Mountain, from J. C. Tierner, Oradell, N. J., $18,050; C. J. Burgess, Marcy, $32,280; D. Schoentag, John St., $32,680. Noted June 29.

O., Cleveland—Cuyahoga Co. opened bids July 19, (1) 6,500 ft. 4-8 in. c.i. mains in Parma Dist. Impvt. 18 (2) 21, 320 ft. 4-10 in. c.i. mains in Parma Dist. Impvt. 17, from Water & Sewer Impvt. Co., 10923 Detroit Ave., (1) $30,009; D. Pfahl, Berea Rd., (1) $30,506 (2) $104,125; E. Cesa & Son, 2462 Baldwin Rd., (1) $30,738; Post Constr. Co., 10823 Fairchild Ave., (2) $90,351; Langahan Constr. Co., Marshall Bldg., (2) $103,125.

O., Geneva—Opened bids July 19, pumping station, furnishing and erecting Imhoff tank and filter beds, from Ashtabula Constr. Co., Ashtabula, $49,500; Johnson-Erickson Constr. Co., Ashtabula, $57,000.

CONTRACTS AWARDED

Conn., Berlin—For 3½ mi. 4-12 in. c.i. mains, etc., in Hudson St., Farmington Ave., Middletown Rd. and Worthington Bridge Dist., general contract to E. B. Curtis Constr. Co., Bristol, and Driscoll Constr. Co., Torrington; piping to United States Cast Iron Fdry. Co., Morris Blk., Phila.; hydrants to A. P. Smith Mfg. Co., Norman St., East Orange, N. J.; special castings to Builders Iron Fdry., 9 Codding St., Providence, R. I. Engrs. est. $60,000. Noted June 29.

Conn., West Hartford—Bd. of Water Comrs., 1026 Main St., circular gate chamber, 1 story, 25 ft. diam. over gates and piping controlling inflow of water to filtration plant, 1 story, 42 x 42 ft. office and laboratory, two 1 story, 26 x 60 ft. regular houses, to industrial Constr. Co., 721 Main St., Hartford, $67,460. Engrs. est., $75,000.

N. Y., Niagara Falls—For 36 in. iron mains in Adams Ave. from waterworks pumping station to Sugar St. and in Sugar St. to Buffalo Ave., to Neilans Bros. Co., Tonawanda, $59,303.

Pa., Moosic—Spring Brook Water Supply Co., selected earth dam, 1,490 ft. long, 125 ft. high, capacity 1,800,000,000 gal., about 9 mi. from here, also 900 ft. tunnel, to Winston & Co., American Natl. Bank Bldg., Richmond, Va. Exceeds $1,000,000.

W. Va., Fairmont—Intake well at city pumping station, to Rogers-Shumway, Worthington, $16,450.

W. Va., Wheeling—Extending water system to Foundation Co., Fulton Bldg., Pittsburgh, Pa. Engrs. est. $40,000. Noted March 16.

Tenn., Lebanon—See "Sewers."

O., Columbus—See "Streets and Roads."

O., Garfield Heights (Cleveland P. O.)—See "Sewers."

Ia., Nevada—For 200,000 gal. rein.-con. reservoir, 376 lin. ft. 8-10 in. c.i. pipe and specials, 170 lin.ft. 8 in. sewer pipe, etc. to H. E. Rhodes, Guthrie Center, $9,330. Noted July 6.

Minn., Royalton—Waterworks extensions, etc., distribution to Phelps-Drake Co., 719 Metropolitan Life Bldg., Minneapolis, $17,714; 10 in. well to McCarthy Well Co., 670 Eustis Ave., St. Paul, $7 per ft. for drilling and casing, $18 per ft. for screen.

Wyo., Laramie—Laying 6,000 ft. 12 in., 400 ft. 8 in. and 800 ft. 10 in. mains, etc., also building concrete spring house, to J. S. Schwartz, 1015 East Boulder St., Colorado Springs, Col., $41,000.

Wash., Walla Walla—Completing Div. 2 of waterworks system, incl. new diversion dam and intake, 4 mi. of 20 in. creosoted wood stave pipe, to Puget Sound Bridge and Dredging Co., Central Bldg., Seattle, $132,716. Noted June 29.

Sewers

PROPOSED WORK

Pa., Farrell—Making plans sewage disposal plant. $25,000. Banks & Craig, 709 Telegraph Bldg., Harrisburg, engrs.

Pa., Carbondale—Plans $25,000 bond issue for sewers in Harlem and Williams Aves., Wayne, Brooks and Main Sts. and Fallbrook Creek. W. L. Giles, city engr.

Pa., Oil City—Plans sewage disposal plant $400,000. A. R. Smart, dir. pub. wks.

Va., Clarendon—Plans sewerage and water system. $30,000. Engineer not selected. Address C. B. Taylor, pres. Citizens Assn.

N. C., La Grange—Plan election to vote on $50,000 bonds for sewerage system.

N. C., Raleigh—See "Miscellaneous."

N. C., Salisbury—See "Miscellaneous."

Mich., Springwells—Making plans 78,000 ft. sewer arms varying from horseshoe section 13 ft. 6 in. x 18 ft. to 24 in., greater part to be 48-60 in. in diameter, tunnel or open cut. $1,200,000 voted for project. A.

Sewers (Continued)

Roth, 2438 Penobscot Bldg., Detroit, engr. C. W. Hubbel, 2348 Penobscot Bldg., Detroit, consult. engr.

Wis., Wauwatosa—Story Estate, c/o H. W. Story, 644 51st St., Milwaukee, having preliminary plans prepared vitr. pipe sewers and watermains in new subdivision. Story Hill No. 2, 45th St. and Blue Mound Rd. near here. $25,000. Parsons & Orbert, 216 West Water St., Milwaukee, engrs.

Ia., Kalona—Making plans sanitary sewerage system. $35,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Wash., Port Angeles—Rejected bids opened July 12, 14,000 ft. 6-21 in. rein.-con. sewers in Main St. $35,000. Will readvertise.

Cal., Sacramento—See "Streets and Roads".

Cal., Vallejo—Having plans prepared 8 blocks sewers in Hirst and Vallejo Heights sub-division. F. Steinger, Fairfield, engr.

Cal., Yuba City—Plans to vote on $25,000 bonds for sewerage system. E. Von Geldern, city engr.

Ont., St. Thomas—Plans storm sewers. $30,000. Prices wanted on materials up to 18 in. W. C. Miller, city engr.

BIDS DESIRED

N. Y., Eastwood—See "Streets and Roads."

N. Y., New York — See "Streets and Roads."

N. Y., Rye—Aug. 23, by Village Trustees, certain pipe sewers and disposal works. G. E. Hill, 45 7th Ave., New York, engr.; adv. this issue.

N. J., Newark—Aug. 22, by Passoic Valley Sewerage Comrs., 128 Market St., city dock local sewer connection. Former bids rejected. J. R. Van Duyne, ch. engr. Noted June 29.

N. J., Pensauken—Aug. 14, by Top. Com., Cove and Centre Sts., sanitary sewerage system, Contr. 1, and 2 sewage pumping stations, Contr. 2, Remington & Vosbury, 601 Market St., Camden, engrs.; adv. this issue.

N. J., Sayreville—Aug. 16, by E. E. Clark, mayor, and Boro Council, Boro Hall, sewers and sewage pumping station. W. S. Coulter, 114 Liberty St., New York City, consult. engr.; adv. this issue.

W. Va., Wheeling—Aug. 1, (change of date), sewers in Market, Main, 12th and South Market Sts. H. A. Conrad, city engr.; adv. this issue. Noted July 20.

Ga., Albany—Aug. 1, by J. W. Armstrong, clk., sewers in East Albany, incl. 7,816, ft. 8-18 in. concrete pipe, 4,572 cu.yd. earth trenching, etc. P. F. Whittier, City Hall, engr.

Wis., Milwaukee—Aug. 4, by Metropolitan Sewerage Comn., 508 Market St., main sewer in Watertown Plank Rd., incl., 1,962 ft. 24 in. c.i. pipe siphon, 5,936 ft. 48 in. concrete sewer.

Wis., Sturgeon Bay—Aug. 1, by E. S. Ackermann, city clk., 9,500 ft. 8 in. vitr. sewers in various streets. $25,000. E. W. Odbert, Egg Harbor, engr.

Ia., Blairstown—Aug. 2, for 13,087 ft. 8 or 12 in. sanitary sewers and sewage treatment plant. $32,000. M. Tschirgi & Son, 711 Amer. Trust Bldg., Cedar Rapids, engrs. Noted June 15.

Minn., Alexandria—July 31, sewer extensions and improvements, incl. 15,273 lin.ft. 8-15 in. pipe, 34 manholes, 1 lamphole, sewage disposal plant, $60,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted July 28, 1921.

Tex., Ft. Worth—City Council receiving bids large disposal plant, 4 Imhoff tanks, 3 filter beds, sprinkling filter system, three 16-in. centrifugal pumps, etc. $500,000. City Engineer in charge of work. E. E. Sands, Mason Bldg., Houston, consult. engr.

Ont., Hamilton—Aug. 7, by S. H. Kent, clk., 4,880 ft. 5 ft. x 6 ft. 9 in. to 7 ft. 6 in. x 7 ft. 6 in. rein.-con., and 1,800 ft. 12 in. vitr. pipe. $200,000. E. R. Gray, city engr

Ont., Toronto—Aug. 1, by C. A. Maguire, city engr., 20,000 ft. 8-20 in. vitr. pipe sewers in Victoria St., Rosewell Ave., Cortleigh Crescent, Rose Park Crescent, Nursewood Rd. and Macpherson Ave. $125,000.

BIDS RECEIVED

N. Y., Mt. Kisco—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids July 21, resanding existing filter beds and constructing new filter beds at Mt. Kisco sewage disposal plant, near here, Westchester Co., from Carroll Contg. Co., 103 Park Ave., New York, (a) $38,426, (b) $42,987; Garofano Contg. Co., (a) $38,938, (b) $47,982; Suburban Eng. Co., (a) $48,883, (b) $54,056. Noted July 13.

N. Y., New York—J. Miller, pres. Manhattan Boro, opened bids July 20, sewer in easterly side of Riverside Dr. from point about 141 ft. south of Plaza Lafayette (West 181st St.), etc., from M. DelBalso, University Ave. and 195th St., $11,842; D. Bonacci, $14,243; McLaughlin & Buckley, 337 East 134th St., $14,968. Noted July 13.

O., Cleveland—Cuyahoga Co., 9,240 ft. 8 in. vitr. sewer in Snow Rd., from Carrocio & Gandio, 14910 Benwood Ave., $56,884; Joseph & Kalill, Bangor Bldg., $62,730.

S. D., Yankton—Opened bids July 17, 17,435 lin.ft. 10-36 in. sewer incl. 7,000 lin.ft. 10 in. connecting pipe, etc., in various streets, from Cady & Savonell, Sioux City, Ia., $35,943; Kruse Constr. Co., Spencer, Ia., $36,006; City Sewerage Co., Sioux City, Ia., $36,472. Noted July 6.

CONTRACTS AWARDED

Me., Portland—Comr. Pub. Wks., 2,250 ft. 24-30 in. vitr. clay sewer in Forest Ave., to Monitor Contg. Co., Portland, $23,133. Noted July 13.

N. J., Woodbury Heights—Boro Council sanitary sewerage system, to G. S. Miller & Co., Pitman, $33,000; disposal plant, to Wedow & Myers, 426 Walnut St., Phila., $15,000. Noted June 22.

Pa., Bradford—See "Streets and Roads."

Pa., Phila.—F. H. Caven, dir. pub. wks., branch sewers in 12th St. from Thompson St. to Columbia Ave., to M. Mattia, 263 Simpson St., $28,150; Roosevelt Blvd. from Summerdale Ave. to Pennsylvania R.R. Schillier St. from Thompson to Richmond Sts., Tulip St. from Cottman to Friendship Sts., to W. H. Yettman, Jr., Lincoln Bldg., $26,313; Grange Ave. from 4th to 3rd Sts., 4th St. from Grange to Nedro Ave. and 4th St. from Chew to Grange Aves., to E. Lera, 3851 North 10th St., $25,492; American St. from Luzerne St. to Rising Sun Ave., American St. from Chew St. to a point 304 ft. north and Delphine St. from 3rd to American Sts., to J. Lombardi, Lincoln Bldg., $26,849. Noted July 3.

N. C., Rocky Mount—For 7,140 ft. 24 in. vitr. pipe and 675 ft. 15 in. standard pipe, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $29,385.

S. C., Charleston—Constructing 90,000 ft. 8-36 in. terra cotta pipe sewers, from Bryan & Co., Jacksonville, Fla., $358,000. Noted June 22.

Fla., Eustis—For 2½ mi. 8-12 in. sewers and disposal plant, to Lord & Armiston, Dunedin, $24,215. Noted June 15.

Fla., Winter Haven—For 12 mi. of 8-15 in. terra cotta sanitary sewers and 3 disposal plants, to Dysard Constr. Co., Austell Bldg., Atlanta, Ga. Noted June 8.

Tenn., Lebanon—Complete sewage disposal plant and addition to present water plant, to Tennessee Mfg. & Constr. Co., Lebanon, $220,000. Noted June 29.

O., Akron—M. P. Tucker, dir. Pub. Serv. 1405 ft. 6-24 in. vitr. clay and 1195, 66 in. brick sewer in Sweitzer Ave. and 2,280 ft. 8-15 in. vitr. clay and 1,555 ft. 39 in. segmental block sewer in Crozier Ave., to T. E. McShaffrey Constr. Co., 171 South Forge St., $30,490 and $20,267, respectively. Noted July 20.

O., Garfield Heights (Cleveland P. O.)—Sewers and water mains in 5 streets, to A. Hosine, 635 Bradley Court, Cleveland, $9,742; 1 street, to Kassouff Co., 3182 West 25th St., Cleveland, $16,667; 3 streets, to Salem & George Bros., 237 Bradley Court, Cleveland, $82,833; 5 streets, to B. J. Whittaker, West 98th St., Cleveland, $9,278.

Wis., Kenosha—Vitr. pipe sewers, etc., in Edward, Congress, Fleet, Pearl and Huron Sts. and Rice Ave., to M. Thomson, 1620 Salem Ave., $17,787; P. Frandsen, 1667 Sellick Ave., $9,566; E. Till, Kenosha, $23,603; C. Johnson, Kenosha, $22,347; Walraven & De Young, Kenosha, $3,391; Ostergaard & Ostergaard, Kenosha, $11,825.

Minn., Graceville—Sewer Dist. 5, 7,400 lin.ft. 15 in. and 3,800 lin.ft. 8 in. vitr. sewer pipe, 24 manholes, to Coolsaet Bros., Marshall, $26,312; 1 flush tank, 1 Imhoff tank and sludge bed, to Ward & Weighton, Sioux City, Ia., $5,645. Noted June 22.

Cal., Los Angeles—Sewerage system in El Sereno Dist., 6-18 in. rein.-con. and vitr. pipe, to Bebek & Brkich, 425 West 78th St. $135,126.

Cal., Los Angeles—Rimpau Hill & Wilshire Crest Syndicate, 1,700 ft. 45 and 48 in. rein.-con. storm drains and 5 rein.-con. culverts, to Robinson-Roberts Co., 5000 Country Club Dr. $30,000.

Waste Disposal

PROPOSED WORK

O., East Youngstown—Plans election to vote on $35,000 bonds to buy and equip garbage incinerator plant. H. L. Jones, pres. village council.

Bridges

PROPOSED WORK

N. Y., Celeron—Village and Erie R.R., 50 Church St., New York, plan new concrete bridge over railroad crossing on Dunham Ave., here, or improvements to present structure. $25,000. W. T. Price, village engr. R. L. Turner, grade crossing engr. for Erie R.R.

N. C., Troy—See "Streets and Roads."

Tenn., Nashville—Freeland, Roberts & Acker, engrs., Independent Life Bldg., soon receive bids 2 rein.-con. viaducts over tracks on Church and Meridian Sts., for city. $275,000 and $375,000 respectively. Noted July 6.

Missouri—State Hy. Dept. at div. office Bloomfield, rejected bids opened July 2, one 40 ft. I-Beam, two 20 ft. rein.-con. slab, three 50 ft. steel, one 24 ft. and one 30 ft. rein.-con. deck girder spans, on road from Advance northeastward and southward, Federal Aid Project 187, Stoddard Co. Noted July 6.

Kan., Cambridge—Cowley Co. (Winfield) had plans prepared 120 ft. concrete bridge, 18 ft., probably 3 deck girder spans near here. W. S. Ruggles, Winfield, engr.

Wyo., Sheridan—Plans 60 ft. concrete arch bridge, 2 spans, over Big Goose Creek on Doucks St. $30,000. E. C. Gwillim, City Hall, engr.

Tex., Beaumont—Jefferson Co. making plans 0.098 mi. steel and concrete bridge across Neches River on State Highway 3, 200,000 lb. structural steel for movable spans, 198,500 lb. reinforcing, 32,750 lin.ft. wooden piling. $234,000. A. C. Love, co. engr.

Tex., Palestine—Anderson Co. preliminary inspections made steel span and timber pile trestle, (200 ft. steel truss) over Trinity River between Anderson and Freestone. $119,000. H. I. Myers, chn. good roads com.

Cal., San Luis Obispo—Having plans prepared 2 rein.-con. bridges over Cholame Lateral, $20,000; rein.-con. bridge over Villa Creek, $10,000; steel bridge over Santa Rosa Creek in town of Cambria, $15,000; 4 rein.-con. culverts near Templeton, $9,000.

BIDS DESIRED

N. Y., Ballston Spa—Aug. 16, by J. H. Whitney, clk. Bd. Supervs. Saratoga Co. for Saratoga Lake Bridge, steel, over narrows at north end of Saratoga Lake. J. A. La Waddell, 35 Nassau St., New York, consult. engr.; adv. this issue.

West Virginia—Aug. 15, by State Rd. Comn., Charleston, Witcher Bridge 772, Project 116; Cedar Grove Bridge 773, Project 3179; Hugheston Bridge 783, Project 3135B; Hartland Bridge 805; Bartow Bridge 829, Project 3185; Poca Bridge 619; East Keystone Bridge 727, Project 3096; Clothier Bridge 810, Project 3059; Sharpless Bridge 826, Project 3059; Seng Camp Bridge 830, Project 3059; Allen Creek Bridge 730, Project 3062; Cross Creek Bridge 819, Project 3126; Granny Creek Bridge 807, Project 3110; Junction Bridge 802, Project 3011B; Reynolds Gap Bridge 808, Project 3013; Judy Bridge 809, Project 3014; Reeds Creek Bridge 828, Project 3105; grading and paving Project 3126, Brooke Co. E. B. Carskadon, secy.; adv. this issue.

Georgia—Aug. 1, by State Hy. Dept., Atlanta, removing old bridges and constructing 4 bridges and approaches on Tipton-Moultrie Rd., Tipton Co., 94,415 lb. reinforcing, 665.44 cu.yd. concrete, 2,900 lin.ft. concrete piles, 1,006 sq.yd. concrete paving, 11,949 cu.yd. borrow excav., 110,476 sta.yd. overhaul. F. M. Hill, Tipton, engr.

Fla., Miami—Aug. 15, bridge over Miami River on Southwest 2nd Ave. F. H. Wharton, city mgr.; adv. this issue.

Fla., West Palm Beach—Aug. 1, by Comrs. Palm Beach Co., timber bridge, 1 lift, over Jupiter Narrows; rein.-con. bridge either slab arch or girder, 15 ton load, over south fork of St. Lucie River. $25,000. R. F. Goodman, West Palm Beach, engr. Noted June 1.

Alabama—See "Streets and Roads."

Tenn., Knoxville—Sept. 1, by J. L. Greer, city recdr., 2,000 ft. rein.-con. truss bridge

Bridges (Continued)

over Southern R.R. tracks on Bway. $300,000. A. R. Frierson, Knoxville, engr.

Indiana—Aug. 8, by J. D. Williams, dir. State Hy. Dept., Indianapolis, 2 bridges over Deer Creek, State Rd. 3-F, Putnam Co., one to have two 60 ft. spans, other **two 70 ft. rein.-con. arches**; 16 ft. rein.-con. box culvert over Heston Ditch, State Rd. 1-G, St. Joseph Co.; 32 ft. rein.-con. slab over Drainage Ditch, State Rd. 4-D, Spencer Co.; 55 ft. steel truss over Bruce Ditch, State Rd. 4-D, and 72 ft. steel truss **over Little Pigeon Creek**, State Rd. 4-D, Warrick Co.; rein.-con. arch having two 60 ft. spans, over Lick Creek, State Rd. 4-K, Orange Co.; 72 ft. steel truss over Robbins Ditch, State Rd. 15-F, Starke Co.; 13 ft. rein.-con. slab over Drainage Ditch, State Rd. 13-G, Blackford Co.; 28 ft. rein.-con. girder over Drainage Ditch, State Rd. 4-Z, Posey Co.; 12 ft. rein.-con. slab over Indian Creek, State Rd. 2-K, Noble Co.

Ill., Taylorville — See "Excavation and Dredging."

Wis., Madison — Aug. 11, by E. E. Parker, engr., City Hall, 60 ft. rein.-con. arch span bridge, 44 ft. road, two 8 ft. walks, on East Johnson St. $25,000.

Tex., New Boston—Aug. 4, by O. B. Pirkey, judge Bowie Co., 1.59 mi. steel bridge over Sulphur River, 150 ft. steel span over main channel, earth approaches, timber piling, etc. Alternate bids on timber pile trestle over main channel. $100,300. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Wash., Yakima—Aug. 5, by Comrs. Yakima Co., 252 ft steel bridge to replace present wooden structure at Painted Rocks. $40,000. W. C. Marion, Yakima, engr.

California—Aug. 14, by State Hy. Comn., Sacramento, rein.-con. girder bridge over San Gabriel River near Azusa, Los Angeles Co., eighteen 54 ft. spans and one 31 ft. approach span, with piers, abutments, wing walls and bank protection. A. B. Fletcher, state highway engr.

Cal., Eureka—Aug. 5, by F. M. Kay, clk. Humboldt Co., 3 steel bridges over Akens, Slate and Bluff Creeks, each about 100 ft. long. A. J. Logan, co. surv. Noted July 13.

BIDS RECEIVED

New York—See "Streets and Roads."

Fla., West Palm Beach—Comrs. Palm Beach Co., constructing (1) West Palm Beach Canal Bridge, (2) Poppleton Bridge, (3) 2 other smaller bridges, from L. S. Fox Co., Dayton, O., (1) $9,865; Pensacola Shipbuilding Co., Amer. Natl. Bank Bldg., Pensacola, (1) $10,540; H. C. Daniels, West Palm Beach, (1) revised plans $6,100, (2) $17,960, (3) $6,300; C. E. Hillyer, Blum Bldg., Jacksonville, (2) $19,700, (3) $7,890. Noted June 22.

Alabama—State Hy. Dept., Mongtomery, for Tombigbee River bridge at Moscow Ferry, known as Rooster Bridge, 990 ft. long, 18 ft. roadway, concrete and steel, Marengo and Sumter Counties, (1) superstructure, (2) concrete substructure and approaches, (a) Waddell design, (b) Strauss design, from Doullut & Williams Co., 816 Howard Ave., New Orleans, La., (1a) $98,109, (1b) $94,068, (2) $117,269; Virginia Bridge & Iron Co., Roanoke, Va., (1a) $98,310; Louisville Bridge & Iron Co., 11th and Oldham Sts., Louisville, Ky., (1a) $110,756; Reid & Lowe, B-M Bldg., Birmingham, (2) $156,564; C. M. Sartain, Jasper, (2) $171,539. Noted June 29.

Alabama—State Hy. Dept., Montgomery, concrete bridge on concrete piles with two 80 steel spans on Montgomery-Tuskegee Rd., Macon Co., from W. D. Owens, Belahatchee, Miss., $59,507; Austin Bros. Bridge Co., Hurt Bldg., Atlanta, Ga., $73,764; Worthington & Co., Birmingham, $75,394. Noted June 29.

Col., Ft. Morgan—Morgan Co. concrete bridge and approaches across South Platte River, State Project 682, twenty 50 ft. concrete girder spans, (a) State type, (b) Marsh type, from Colorado Bridge & Constr. Co., Gas & Electric Bldg., Denver, (a) $80,939, (b) $80,101; E. Lindsay Co., Denver, (a) $89,396; Pueblo Bridge & Constr. Co., Pueblo, (a) $91,498. Noted June 29.

Cal., Los Angeles—Los Angeles Harbor Comn., City Hall, 4 piers for bascale bridge, Badger Ave., in San Pedro Dist., 257 wood piles, 12-ton reinforcing, 1,700 cu.yd. concrete, from Ross Constr. Co., Van Nuys Bldg., $262,400; F. Hoffman, 111 East 12th St., Long Beach, $268,000; San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, $275,000.

CONTRACTS AWARDED

Pa., Williamsport—Bd. Comrs., Lycoming Co., 1,500 ft. riveted steel truss bridge over west branch of Susquehanna River between Arch St., West Williamsport, and High St., Duboistown, seven 200 ft. spans, 7 concrete piers, creosoted wood block roadway, rein.-con. sidewalks, ornamental lighting system, etc., to Bethlehem Steel Bridge Co., Bethlehem, $271,170. Noted July 20.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 200, Carteret Co., to Batson-Cook Co., West Point, Ga., $27,005; State Project 800, Avery Co., to J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., $32,883; State Project 145, Hertford Co., to Atlantic Bridge Co., Roanoke, Va., $38,112; State Projects 386 and 387, Robeson Co., to J. O. Heyworth, Harvester Bldg., Chicago, $36,601. Noted July 13.

North Carolina—See "Streets and Roads."

S. C., Barnwell—Comrs. Barnwell Co., rein.-con. bridge over Salkehatchie River, to Elliott & Sons, Spartanburg, $38,000. Noted June 15.

Fla., Clearwater—Comrs. Pinellas Co., 1 creosoted timber bridge with 25 ft. clear span, single lift, 30 ton, 20 ft. wide, and 5 smaller wooden bridges on Rds. 2, 3, 4, 7, 8 and 13, to Pensacola Shipbuilding Co., Amer. Natl. Bank Bldg., Pensacola, $42,136; 7 concrete arch construction and 16 flat slab bridges on Rds. 6, 8 and 11, to Luten Bridge Co., Palatka, and West Market St., York, Pa., $68,041. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, concrete bridge on Dayton-Indianapolis Rd., Preble Co., to F. K. Vaughn Co., Hamilton, $24,740; bridge over Dry Run, on Sect. "G" Chillicothe-Jackson Rd., Ross Co., to E. F. Bearce, Chillicothe, $5,456. Noted July 20.

O., Cleveland—Cuyahoga Co., concrete viaduct on West 73rd St., to Central States Eng. & Constr. Co., Union Commerce Bldg., $218,382, engrs. est. $281,567. Noted June 15.

Minn., Minneapolis—Northern Pacific R.R., 5th and Jackson Sts., St. Paul, enlarging two concrete bridges, one on 4th St. and 15th Ave. S. E., other on University and 14th Aves. S. E.; constructing new concrete bridge over tracks on 20th Ave. S.; incl. retaining wall, 9,000 cu.yd. concrete, 100,000 cu.yd. excav., etc., to Grant Smith & Co., 1505 Pioneer Bldg., St. Paul. Cost complete $600,000. Owner to furnish materials. Noted May 4.

Minn., Roseau—Roseau Co., State Project 11-22, Bridge 3688, four 75 ft. truss spans, 20 ft. roadway, 5 ft. walk, rein.-con. abutments and piers, to Guaranty Constr. Co., 305 Essex Bldg., Minneapolis, $28,600. Noted Feb. 17, 1921.

Minn., Waseca — See "Excavation and Dredging."

Neb., Clay Center — Clay Co., Flesner Bridge in Inland, Hoyden Bridge in Fairfield and Springranch Bridge in Springranch, to Nicholls Bros., Fairmont, $1,597, $3,438 and $4,010 respectively; Paris Bridge in Leicester, Hatchel Bridge in Harvard, and Clark Bridge in Sutton, to J. W. Kempf, Shickley, $1,733, $3,892 and $4,156 respectively; Hill Bridge in Edgar, to F. H. Kilts, Hastings, $4,154. Noted June 1.

Missouri—State Hy. Dept. at div. office Fredericktown, one 24 ft. rein.-con. deck girder, one 60 ft. steel truss and seventeen 10 ft. rein.-con. slab spans, on road from Fredericktown to Farmington and Greenville, Federal Aid Project 101 B, Madison Co., to Hogan-Humphreys, Little Rock, Ark., $16,923. Noted July 6.

Missouri—State Hy. Dept. at div. office Marble Hill, one 30 ft. rein.-con. through girder, one 120 ft., one 100 ft. and one 80 ft. steel truss spans, 18 ft. roadways, on road from Lutesville northeastward, Federal Aid Project 174, Sect. B, Bollinger Co., to M. E. Gillioz, Monett, $39,080. Noted July 6.

Missouri—State Hy. Dept. at div. office Ironton, three 40 ft. rein.-con. spandrel filled arch, four 16 ft. and one 20 ft. rein.-con. slab and two 24 ft. rein.-con. deck girder spans, 18 ft. roadways, on road from Ironton to Potosi, Federal Aid Project 107 A, Iron Co., to St. Louis Bridge & Supply Co., Frisco Bldg., St. Louis, $21,360. Noted July 13.

Mo., Chillicothe—Bd. Supervs. Grand River D.D., 560 lin.ft. steel bridges, 16 ft., across new channels, to Midland Bridge Co., 509 Railway Exch. Bldg., Kansas City, $37,400. Noted June 15.

Tex., Colorado—Mitchell Co. 1,200 ft. bridge across Colorado River, 6 concrete deck girder spans, to Brown-Abbott Constr. Co., Loraine, $44,327. Noted July 13.

Cal., Miranda—Supervs. Humboldt Co., Eureka, cable suspension bridge over South Fork Eel River, in Rd. Dist. 2, near here, to Padgett & Kelly, Eureka, $21,849. Noted May 25.

Dams

CONTRACTS AWARDED

Pa., Moosic—See "Waterworks."

Cal., Placerville—El Dorado Water Corp., dam, 3 arch concrete, 110 ft. high, 300 ft. long, 2 ft. wide at top, 10 ft. wide at bedrock, 5,000 cu.yd. concrete; excavating dam site, 800 cu.yd. excav.; tunnels, 1,100 ft. long, 4 x 5 ft. dia.; pipe line, pipe and syphon in cradles, 2,700 lin.ft. 30 in. wood stave pipe; ditches 32,000 ft. long, 24,000 cu.yd. excav., to Coast Constr. Co., Crocker Bldg., San Francisco, $150,000. Owner furnishes reinforcing and ditch structures.

Railways

PROPOSED WORK

California—Amador-Central R.R., Amador, plans extending railroad 22 mi. from Amador into gold mining region, standard gauge. $50,000. Address M. J. Erickson, Amador, owner.

Excavation and Dredging

PROPOSED WORK

Mich., Detroit—Wayne Co. and Macomb Co. (Mount Clemens) having plans prepared 9½ mi. open cut drain beginning at Lake St. Clair at Milk River and reversing flow of Milk River and Fox Creek and emptying through Black Marsh Drain. $200,000. G. W. Dingman, County Bldg., Detroit, engr.

Cal., Salem — Consolidated Irrigation Dist., 1st Natl. Bank Bldg., plans additions and betterments to canal system, involving check gates, culverts and concrete drops. $75,000. Noted March 30.

BIDS DESIRED

Ill., Taylorville—Aug. 4, by Comrs. North Fork Outlet D.D., Court House, dredging 16 mi. Sangamon River, from point south of Niantic to point below Robey, 1,625,000 ft. earth and 3,300 ft. rock and shale excav., clearing right of way, removing and replacing 2 highway bridges, 2 new highway bridges and 1 ford. Goodell & Millard, Beardstown, engrs.

Minn., Albert Lea—Aug. 5, by F. Tavis, aud. Freeborn Co., Co. Ditch 5, 32,814 lin. ft. 6-28 in. tile, 1,60 cu. yd. excav., $22,584; Co. Ditch 37, 7,354 lin. ft. 6-22 in. tile, $5,513. J. H. Severson, Albert Lea, engr.

Mo., Salisbury—Aug. 5, by Bd. Supervs. Bee Branch D.D., at office of G. Lamb, atty., Salisbury, 110,900 cu.yd. levee, 132,500 cu.yd. ditches, 110 lin.ft. 12 and 18 in. sluiceways, etc. T. N. Jacob, 1900 Railway Exch. Bldg., St. Louis, engr.

CONTRACTS AWARDED

Minn., Austin—Mower Co., Judicial Ditch 6, Section O, 11,153 lin.ft. main open ditch, 60,796 cu.yd. excav., 30,000 cu.yd. leveling spoil bank, 34 flood water control structures, 2 weirs and spillways, 3 timber bridges; Sect. T-39, 583 lin.ft. 6-24 in. tile; Sect. L-39, 583 lin.ft. trenching, etc., to J. Rofdal, Northwood, Ia., $28,000. Noted June 29.

Minn., Elk River—Sherburne Co., Ditch 28, 11,508 cu.yd. excav., 71,578 lin.ft. 6-24 in. tile, etc.; excavation to J. H. Arnold, Princeton, $10,705, and K. C. Richardson, 460 Park St., Anoka, $2,542; tile to Elk River Concrete Products Co., Elk River, $11,552. Noted June 8.

Minn., Redwood Falls—Redwood Co., Co. Ditch 69, tile material to Tracy Cement Tile Co., Tracy, $24,025, labor, to L. Kramme, Sanborn, Ia., $15,999; Co. Ditch 52, 257,561 cu.yd. excav., to Mulgrew Sons & Co., Dubuque, Ia., $0.13 per cu.yd. for open work, $0.02 for leveling; Co. Ditch 68, 147,806 cu.yd. excav., to T. Jensen, Tracy, $33,200. Noted June 29.

Minn., Waseca—Waseca and Freeborn Counties, Judicial Ditch 8, 163,501 cu.yd. excav., 6 timber bridges, 44 water control structures, 72,245 lin.ft. 6-28 in. tile, forty 24 in. water intakes, 2 wells, to W. L. Martin, Albert Lea, $75,000. Noted June 22.

Streets and Roads

PROPOSED WORK

N. Y., Hancock—Voted $50,000 bonds for repairing and reconstructing pavements.

N. Y., Le Roy—Plans Paving Gilbert, Union and Exchange Sts., etc., $25,000; water mains and installing meters in North Ave., $10,000. Engineer not announced.

N. Y., Waterloo—Plans paving 3 mi. various streets, bituminous macadam. Engineer not announced.

Streets and Roads (Continued)

N. Y., Wilson—Village and Niagara Co. (Lockport) plan constructing 6 mi. East Lake St. and East Youngstown Rd., 18 ft., concrete. $200,000. W. V. S., village pres.

N. J., Mt. Holly—Bd. Freeholders Burlington Co. plans improving 7 mi. Mt. Holly-Burlington Rd.; 1½ mi. Edgewater Park Sta. Rd.; 0.5 mi. Broad St. to city line, Burlington City. $250,000. B. H. Wills, Kelsey & Killie Bdg., co. engr.

Pa., Beaver—Authorized sale of $75,000 bonds to improve College Hill St. and 4th Ave. Engineer not announced.

Pa., Wesleyville—Soon receives bids paving Station St., 30 ft., concrete and macadam. $27,145. C. Briggs, boro. engr.

North Carolina—State Hy. Dept., Raleigh, rejected bids grading, paving and bridging 3.53 mi. Project 713, Ashe Co. Will readvertise. C. M. Upham, state highway engr. Noted July 13.

N. C., Henderson—City will sell $200,000 bonds Aug. 14, for paving streets. R. D. Gladding, Henderson, engr.

N. C., Hillsboro—Plans paving 1 mi. road from court house to depot, concrete or some asphaltic type. $40,000. Engineer not selected.

N. C., Kernersville—Plans 2½ mi. concrete sidewalks. $60,000.

N. C., Morgantown—Soon takes bids concrete paving 3 mi. various streets, 18-30 ft. wide. $100,000. O. B. Lackey, town mgr.

N. C., Salisbury—See "Miscellaneous."

N. C., Troy—Montgomery Co. had surveys made clearing, grading, topsoiling and constructing rein.-con. bridges and culverts on 18 mi. road from Troy, via Uwharrie Bridge to Davidson Co. line $90,000. L. V. Edwards, Winston-Salem, engr.

N. C., Wadesboro—Plans paving various streets, probably asphalt. $40,000.

Tenn., Knoxville—Knox Co. plans grading and paving 8 mi. Lovell, Pedigo and Lows Ferry Rds., 20 ft., macadam. $30,000. J. C. Thomas, Knoxville, engr.

Tenn., Knoxville—Making plans removing old street surface and laying 32,000 ft. asphalt on Park St., 30 ft. $25,000. J. H. Kidd, Knoxville, engr.

Tenn., Nashville—Davidson Co. having plans prepared paving 2½ mi. Harding Pike from Park Circle to Belle Meade Country Club Rd., 24 ft., bituminous concrete on concrete. D. Q. McComb, State Hy. Dept., Nashville, ch. engr.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened July 21, grading, bridging and paving 1.69 mi. Sect. "G" Bucyrus Chesline Rd., Crawford Co., rein.-con., bituminous macadam or brick. Noted July 13.

O., Columbus—Franklin Co. received no bids July 19, paving 1.34 mi. Boehm Rd., Plain Twp. 16 ft., bituminous macadam. Noted July 6.

O., Dayton—Plans paving 1,100 ft. Red Haw Ave. 30 ft., 3,750 sq.yd. sheet asphalt or Kentucky rock asphalt, $14,970; 3 alleys, 2,600 ft. long, 16 ft., 4,500 sq.yd. rein.-con., $13,068. I. E. Houk, City engr.

O., Marietta—Plans resurfacing, widening and paving 2nd, Bellevue, Barrett and Marion Sts., vitr. brick. G. L. Haenn, city engr.

Ill., Columbia—Soon takes bids 18,000 sq.yd. concrete paving. Fuller & Beard, Chemical Bldg., St. Louis, Mo., engrs. Noted Feb. 9.

Ill., Lewistown—Soon takes bids for 10,000 sq.yd. brick paving. Fuller & Beard, Chemical Bldg., St. Louis, Mo., engrs.

Wis., Wauwatosa—Story Estate, c/o H. W. Story, 644 51st St., Milwaukee, having preliminary plans prepared concrete paving and grading new Story Hill subdivision No. 2, 45th St. and Blue Mound Rd., near here. $30,000. Parsons & Orbert, 216 West Water St., Milwaukee, engrs.

Missouri—State Hy. Dept. at div. office Bloomfield, rejected bids opened June 2, 14.841 mi. road from Advance northeast and south, Federal Aid Project 187, Stoddard Co. Noted July 6.

Tex., Brenham—Washington Co. making plans grading and gravel surfacing on rock, 20 mi. State Highway 36 from Austin Co. line to Burleson Co. line, 16 ft., 250,000 cu.yd. roadway and 3,000 cu.yd. rock excav., 3,400 cu.yd. concrete. G. A. Bracher, co. engr.

Tex., Paris—Lamar Co. making plans surfacing 11.16 mi. State Highway 5 west of here to Fannin Co. line, 12 ft., 17,435 cu. yd. gravel. $76,300. W. M. Fooshee, co. engr.

Tex., Waco—McLennan Co. plans grading, gravel surfacing, etc., 3.17 mi. State Highway 7 between here and McGregor, 15 ft., 14,685 cu.yd. borrow, 195 cu.yd. concrete, 17,280 lb. reinforcing, 3,587 cu.yd. gravel, 3,587 cu.yd. crushed rock. $34,000. M. Hannah, co. engr.

Okla., Sayre—Having preliminary plans prepared concrete paving various streets. $50,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engr.

Cal., Bakersfield—City Clerk takes bids about Aug. 15, paving 20 blocks Oak St., asphaltic concrete on 4 in. concrete. Noted July 13.

Cal., Los Angeles—Bd. Supervs. Los Angeles Co. takes bids about Aug. 1, grading, curbing, building walks and laying clay sanitary sewers in 2.12 mi. various streets near Alamitos Bay, 16,745 lin.ft. cement curbing, 84,558 sq.ft. sidewalk, 11,516 cu.yd. grading. $120,248.

Cal., Marysville—Had plans prepared paving various streets in Dist. 16, 533,879 sq.ft. 1½ in. warrenite on 3½ in. bituminous; improving various streets in Dist. 15, 784,381 sq.ft. 1½ in. warrenite on 3½ in. bituminous, 24,390 sq.ft. concrete gutter, 12,633 lin.ft. concrete curb. W. Meeks, city engr.

Cal., Sacramento—Had plans prepared curbing, guttering, paving and laying sewers in portion of Riverside Blvd., 15,662 lin.ft. concrete curb and gutter, 220 lin.ft. vitr. sewer pipe; 963 lin.ft. curb wall, 6,301 lin.ft. 6-22 in., 318,476 sq.ft. 5½ in. pavement, 8,830 sq.ft. 6 in. pavement, concrete curb laying sewer in portion of 41st St., 4,440 lin. ft. 6-24 in. vitr. pipe. A. Givan, city engr.

Cal., Vallejo—Having plans prepared paving 12 blocks in Hirst and Vallejo Heights Dist. F. Steiger, Fairfield, engr.

Cal., Visalia—Had plans prepared improving Northeast 2nd, Northwest 2nd, Northeast 3rd Aves., et al., 229,789 sq.ft. 1½ in. warrenite on 4 in. asphaltic concrete, 4,486 cu.yd. grading, 496 cu.yd. fill, 9,073 lin.ft. curb, 8,602 lin.ft. gutter, 1,522 lin.ft. corrugated iron culverts, 1,000 lin.ft. 8 in. vitr. sewer pipe, etc. L. H. Gadsby, city engr.

Ontario—Provincial Hy. Dept., Toronto, plans paving 6 mi. Talbot Rd., to connect with main highway. Hy Dept., engrs.

Ont., Hamilton—Having plans prepared and receives bids about Aug. 15, paving Gibson, Connaught, and Edgemont Aves., Cannon, Wentworth and, King Sts., asphalt. $80,000. Prices wanted on materials. E. R. Gray, City Hall, engr.

BIDS DESIRED

Vt., Burlington—Aug. 10, improving South Union St. and Shelburne Rd. E. Corley, clk.; adv. this issue.

N. Y., Brooklyn—Aug. 2, by E. Riegelmann, pres. Brooklyn Boro., Borough Hall, repaving roadway Church Ave. from Flatbush to Rogers Aves., Porter Ave. from Johnson Ave. to Ingraham St., 17th Ave. from 86th St. to Cropsey Ave., asphalt on 6 in. concrete; Ralph Ave. from Macon St. to Atlantic Ave. and from Bergen St. to St. Marks Ave., asphalt and grade 1 granite on 6 in. concrete; Ralph Ave. from Atlantic Ave. to Bergen St. grade 1 granite.

N. Y., Eastwood—July 31, by Bd. Village Trustees, Village Hall, South Midler Ave., concrete paving and concrete curbing various streets, also 8 in. vitr. sanitary sewer in Lamson St., Homecraft and Glencove Rds. G. E. Higgins, engr.; adv. this issue.

N. Y., New York—Aug. 1, by H. Bruckner, pres. Bronx Boro., Municipal Bldg., Crotona Park, adjusting curb and sidewalks and paving roadway Valentine Ave. from Burnside Ave. to Kingsbridge Rd. at East 192nd St., asphalt on concrete; grading, setting curb, laying sidewalks, building inlets, receiving basins, approaches, etc. East 228th St. from Paulding to Laconia Aves.; sewers and appurtenances in Middletown Rd. between Westchester and Edison Aves.

N. Y., New York—Aug. 2, by J. Miller, pres. Manhattan Boro., Municipal Bldg., repaving widened portion of roadway West 57th St. from 6th to 7th Aves., asphalt on concrete; South and Marginal Sts., wharf or place on East River from Peck Slip to Montgomery St.; West and Marginal Sts., wharf or place on North River from Cortlandt to Duane Sts., granite block on concrete; alterations and improvements to sewer in West 57th St. between 5th and 6th Ave.

N. Y., Niagara Falls—Aug. 1, by E. J. Fort, city mgr., paving 1,254 ft. 24th St., granite, wood block, asphalt or brick, ($33,870 estimate based on wood block); Whitney Ave. between 22nd and 24th Sts. 40 ft., sheet asphalt, $25,000. W. B. Bennett, city engr. Noted June 8 and 22.

N. Y., Saranac Lake—Aug. 1, by S. A. Miller, village clk., improving Park and Shepard Aves., South and Helen Sts. H. Hull, engr.; adv. this issue.

N. Y., Syracuse—July 31, by Bd. Contract & Supply, paving Renwick Ave. from Harrison to Raynor Sts., 27 ft., 10,760 sq. yd. asphalt, $55,000; West Belden St. from Wallace to West Sts., 30 ft., 3,028 sq. yd. asphalt, $22,00; East Colvin St. from tracks of Delaware, Lackawanna & Western R. R. to city line, 18 ft., 16,160 sq. yd. asphalt, $70,600; Jamesville Ave. from Colvin St. to city line, 18 ft., 10,840 sq. yd. asphalt, $49,200; Adams St. from Almond to Crouse Sts., 27 and 30 ft., 4,550 sq. yd. asphalt, $30,200; South State St. from Raynor to Castle Sts., 30 ft., 2,850 sq. yd. asphalt, $20,000; Lilac St. from Union Pl. to Mary St., 24 ft., 3,830 sq. yd. asphalt, $23,330. T. H. Mather, City Hall, engr.

N. Y., White Plains—Aug. 7, at office of F. L. Merritt, clk. Bd. Supervs. Westchester

ROAD WORK—CALIFORNIA

Following are lowest bids opened July 10 by State Highway Comn., Forum Bldg., Sacramento, for constructing 16.58 mi. state highway in Placer Co., Div. 3, Route 37, Sects. A, B and C, (A) C. H. & A. W. Gorrill, Oakland; (B) Grant Smith & Co., San Francisco; (C) J. A. Costello, Jr., San Francisco. The unit bids were as follows:

	A	B	C
129,100 cu. yd. excavation without classification	$1.07	$0.98	$1.23
62,700 tons broken stone (bituminized macadam)	3.50	3.90	3.25
920 tons asphalt, Grade "E" spread (bituminized macadam)	16.50	20.00	30.00
395 cu. yd. concrete, culverts and monuments	25.00	24.00	25.00
2204 lin. ft. 12 in. corrugated metal pipe	1.25	1.25	1.10
21,736 lin. ft. guard rail	.90	.90	1.25
504 monuments, hauling and setting	2.00	2.00	2.00
Extended totals	$408,955	$425,606	$433,678

SEWER—AKRON, OHIO

Following are lowest bids opened July 5 by M. P. Tucker, dir. Pub. Serv., for installing sewer in East Tallmadge Ave. from North Main St. to east corporation line; (A) McAlonan Bros., 506 Woodland Ave., (awarded contract); (B) T. E. McShaffrey Constr. Co., 171 South Forge St.; (C) V. Olson Contg. Co., Herberich Bldg. The unit bids were as follows:

TRUNK SEWER

755 lin.ft. 30-in. brick sewer complete	$9.40	$9.25	...
2,480 lin.ft. 36-in. brick sewer complete	8.15	9.50	...
9 manholes (standard) on brick sewers	100.00	85.00	...
150 cu.yd. concrete masonry class "3"	5.00	8.00	...
755 lin.ft. 30-in. seg. block sewer complete	7.85	9.00	10.60
2,480 lin.ft. 36-in. seg. block sewer complete	7.20	8.50	9.50
9 manholes (standard) on seg. block sewer	100.00	85.00	75.00
175 cu.yd. concrete masonry class "3"	5.00	8.00	8.00
2,575 lin.ft. 8-in. vitrified pipe sewer complete	1.45	1.00	1.26
1,676 lin.ft. 12-in. vitrified pipe sewer complete	1.10	1.10	1.36
770 lin.ft. 15-in. vitrified pipe sewer complete	1.35	1.50	2.05
200 lin.ft. 18-in. vitrified pipe sewer complete	2.60	2.00	2.40
925 lin.ft. 20-in. vitrified pipe sewer complete	2.80	2.60	3.75
1,320 lin.ft. 24-in. vitrified pipe sewer complete	4.20	3.70	5.00
32 manholes (standard) on pipe sewer	90.00	80.00	85.00
63 street inlets complete, plan 1	30.00	25.00	30.00
6 street inlets complete, plan 3	50.00	35.00	40.00
1 street inlet complete, wingwall	50.00	20.00	40.00
2 street inlets, complete type "D"	30.00	20.00	20.00
150 M. ft. b.m. sheeting left in place	25.00	20.00	35.00
Extended totals for brick sewer (42 items)	$58,708	$59,712	$68,900
Extended totals for seg. block sewer (42 items)	55,307	57,243	...

Streets and Roads (Continued)

Co., Court House, constructing North Bway. Former bids rejected; adv. this issue. Noted July 13.

N. J., Lambertville—Aug. 5, paving Main, York and Union Sts., 9,000 sq.yd. asphalt on scarified base, 150 ton crushed stone and 3,000 sq.yd. shoulders. I. L. Smith, city clk.

N. J., Mays Landing—Aug. 9, by Bd. Freeholders, Atlantic Co., Guarantee Trust Bldg., Atlantic City, reconstructing Sect. 6 of Route 14 in Hamilton Twp., warrenite bitulithic concrete. A. H. Nelson, 636 Guarantee Trust Bldg., Atlantic City, co. engr.; adv. this issue.

N. J., Millville—Aug. 8, by Cumberland Co., Court House, Bridgeton, constructing State Highway Route 15, Sect. 4, West Main St., here. W. M. Sharp, Bridgeton, co. engr.; adv. this issue.

N. J., Mt. Holly—Aug. 4, by Bd. Freeholders Burlington Co., reconstructing Medford-Mt. Holly Rd. 27, in Medford and Lumberton Twps., sheet asphalt on macadam. B. H. Wills, Kelsey & Killie Bldg., co. engr.; adv. this issue.

N. J., South Amboy—Aug. 10, by State Hy. Dept., Trenton, bituminous concrete shoulders 2 ft. wide on each side of present concrete pavement on Route 4, Job 445, Bway from Main St. to Scott Ave., here, Middlesex Co. A. L. Grover, ch. clk.; adv. this issue.

N. J., Trenton—Aug. 8, by Bd. Freeholders Mercer Co. constructing 2.4 mi. road parallel to D. & R. Canal Feeder from Scudders Falls to Washingtons Crossings, 8 in. rein.-con. H. F. Harris, Court House, co. engr.; adv. this issue.

Pa., Catasauqua—Aug. 7 concrete paving 40,000 sq.yd. various streets. $110,000. Bascom & Sieger, Allentown Bank Bldg., Allentown, engrs.

Pa., Chester—Pennsylvania R.R., Broad St., Sta., Phila., receiving bids grading and paving from Ridley River to Pennell St., 3,750 ft. curbing, 5,400 ft. Belgian blocks, 3,000 cu.yd. earth excav., 2,000 cu.yd. ballast, etc., A. C. Shand, ch. engr.

Pa., Erie—Aug. 1, paving Chestnut St. from 26th to Peach Sts., asphalt. $25,720. F. G. Lynch, city engr. Noted July 20.

Pa., Leechburg—Aug. 7, grading, curbing and paving Linden Ave., and portions of 1st St., Center and Floral Aves. C. A. Ehrenfeld, boro. engr.; adv. this issue. Noted July 13.

Maryland—Aug. 8, by State Roads Comn., Baltimore, building 9 sections of State Highways as follows: Contr. A-21, Allegany Co.; Contr. F-51, Frederick Co.; Contr. HO-24, Howard Co.; Contr. AA-20, Anne Arundel Co.; Contrs. P-38 and P-33, Prince George Co.; Contr. CH-20, Charles Co.; Contr. SM-18, St. Marys Co.; Contr. D-26, Dorchester Co. J. N. Mackall, chn.; adv. this issue

West Virginia—See "Bridges."

W. Va., Wheeling—Aug. 12, by Comrs. Ohio Co., surfacing Stone Church Rd., Triadelphia Dist., brick on slag. $25,000. A. C. Hoffman, co. rd. engr.

N. C., Henderson—Aug. 17, by A. A. Bunn, mayor, and Bd. Comrs., 60,000 sq.yd. pavement, etc. R. D. Gladding, Henderson, engr.; adv. this issue.

N. C., Hendersonville—Aug. 1, by Comrs. Henderson Co., surface treating 63,360 sq. yd. macadam road with bituminous carpet. C. Turner, Hendersonville, engr.

Georgia—Aug. 1, by State Hy. Dept., Atlanta, gravel and clay surfacing 10.08 mi. Brunswick-Darien Rd., between Brunswick and Broadfield, Federal Aid Project 261, Glynn Co., 106,163 sq.yd. clay gravel surfacing, 21.64 acres clearing, 6,870 sta.yds. overhaul borrow excav., 29.66 cu.yd. concrete. State to furnish cement f.o.b. nearest railroad station. W. R. Neel, State Hy. Dept., Atlanta, engr.

Ga., Savannah—Aug. 8, by F. R. Butler, clk. Chatham Co. Comrs., paving 17.23 mi. White Bluff Rd., Montgomery Cross Rds., and Skidway Rd., 18 ft. concrete.

Fla., Ft. Myers—Aug. 9, by Comrs. Lee Co., clearing and grading road in Special Rd. & Bridge Dist. 4, on Captiva Island, over 6 mi. long. R. P. Ransome, Ft. Myers, engr.

Fla., West Palm Beach—Aug. 1, by Bd. Comrs. Palm Beach Co., paving with 8 in. rock, oil surface, 11½ mi. Palm City loop, $55,000; 6.8 mi. Ocean Blvd. from Delray to Boca Rotone; 6⅞ mi. 2nd St. in Hobe Sound, $30,000; paving Ocean Blvd. on Jupiter Island and resurfacing road from county line to Seevells Point, $26,000. R. F. Goodman, West Palm Beach, engr.

Alabama—Aug. 15, by W. S. Keller, state highway engr., Montgomery, grading, concrete surfacing and constructing bridge on 4.7 mi. Montgomery-Selma Rd., Selma-Uniontown Rd., Dixie Overland Highway, 2.5 acres clearing, 25,877 cu.yd. excav., 576.43 cu.yd. concrete, 58,484 lb. reinforcing, 51,000 sq.yd. one course plain cement concrete pavement, one 120 ft. steel span, etc.

O., Cleveland—July 29, by Cuyhoga Co. paving Riverside Rd., 11,200 lin. ft. stone curb, 10,230 cu. yd. earth excav., 21,800 sq.yd. vitr brick or asphalt, 5,400 sq.yd. concrete base, $140,134; Lorain Rd. through West Park, 28,750 lin.ft. stone curb, 31,200 lin.ft. 4 in. vitr. tile gutter, 3,720 cu.yd. earth excav., 65,120 sq.yd. vitr. brick, granite block or asphalt, 13,900 sq.yd. concrete base, $573,751. F. J. Lander, Court House, engr.

Ind., Albion—Aug. 3, by Comrs. Noble Co., grading, draining and gravel surfacing 8.7 mi. Samuel Weimer Rd., 18 ft., $72,070; 11.4 mi. Krieger Rd., 24 ft., $114,533; 5.2 mi. A. J. Rich Rd., 18 ft. $55,523; 3.4 mi. Bert Hines Rd., 18 ft., $27,999. Co. surv., engr.

Ind., Brazil—Aug. 7, by Comrs. Clay Co., grading and surfacing, stone and gravel, 3 mi. Harry Frud Rd., 18 ft. $31,000. Co. Surveyor, Brazil, engr.

Ind., Brownstown—Aug. 7, by Comrs. Jackson Co., grading and gravel surfacing 26,170 ft. Daniel Compson Rd., 16 ft. $36,700. Co. Surveyor, Brownstown, engr.

Ind., Crown Point—Aug. 8, by Comrs. Lake Co., grading and gravel surfacing 3.8 mi. E. O. Sutton Rd., 18 ft., $40,461; 3.9 mi. Adolph Lottes Rd., 18 ft., $40,460; 18,400 ft. George Melcher Rd., 16 ft., $34,493; 17,250 ft. M. P. Hawkinson Rd., 16 ft., $34,721. Co. Surveyor, Crown Point, engr.

Ind., Jasper—Aug. 7, by Comrs. Dubois Co., grading, and gravel surfacing 4 mi. 717 ft. Herman Hopenjans Rd. $60,050, and 5,065 ft. Andrew Wagner Rd., macadam, $37,646, both 16 ft. Co. Surveyor, Jasper, engr.

Ind., Monticello—Aug. 8, by Comrs. White Co., grading and gravel surfacing 15,830 ft. Jacob Vogel Rd., 18 ft. $30,155. Co. Surveyor, Monticello, engr.

Ind., Paoli—Aug. 7, by Comrs. Orange Co., grading and gravel surfacing 13,083 ft. French Lick Rd., 18 ft. $27,000. Co. Surveyor, Paoli, engr.

Ind., Valparaiso—Aug. 8, by Comrs. Porter Co., grading and gravel surfacing 4.643 mi. Louis J. Gast Rd., 24 ft. $86,136. Co. Surveyor, Valparaiso, engr.

Ind., Washington—Aug. 8, by Comrs. Daviess Co., grading and gravel surfacing 17,000 ft. Jerome De Mottie Rd., 18 ft. $27,000. Co. Surveyor, Washington, engr.

Michigan—Aug. 1, by State Hy Dept., Lansing, grading and surfacing 2.266 mi. State Trunk Line Rd. 17-5, Van Buren Co., 18 and 20 ft., 25,287 sq.yd. asphalt, concrete or bituminous concrete, 7.101 cu.yd. earth excav. State Hy. Dept., engrs.

Michigan—Aug. 4, by State Hy. Dept., Lansing, grading and surfacing 2.324 mi. State Trunk Line Rd. 14-23, Sect. B, 16 ft., Gratiot Co., 21,603 sq.yd. gravel, 10,336 cu.yd. earth excav., 23,846 lin.ft. tile drains, etc. State Hy. Dept., engrs.

Mich., Monroe—July 31, by Monroe Co., grading and surfacing with waterbound macadam, 3½ mi. Assessment Dist. Rd. 26, and 5 mi. Assessment Dist. Rd. 27, both 16 ft.

Wisconsin—Aug. 4, by State Hy. Dept., Madison, grading and surfacing 2.14 mi. Spooner-Cameron Rd., Federal Aid Project 251, Washburn Co., 4.09 acres clearing, 16,249 cu.yd. earth excav., 3,696 cu.yd. gravel surfacing; 2.58 mi. Webster-Milltown Rd., Federal Aid Project 265-C, Polk Co., 8.72 acres clearing, 17,050 cu.yd. earth excav., 4,451 cu.yd. gravel surfacing. A. R. Hirst, highway engr.

Ia., Merrill—Aug. 2, paving 24,000 sq.yd. various streets, concrete and vibrolithic with gravel and granite aggregates, vertical fibre brick, asphaltic concrete or sheet asphalt. $55,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted June 22.

Ia., Pella—July 31 for (a) repairs to present pavement (b) resurfacing 36,200 sq.yd. asphalt Class 1, asbestos-asphalt Class 2, or tarvia Class 3, 1 in. thick. $40,000. A. C. Kuyper, clk.

Missouri—Aug. 4, by State Hy. Dept. at div. office Bethany, surfacing road from Bethany northward and southward, Federal Aid Propect 8, Harrison Co. Work consists of surfacing with following alternatives: 2.471 mi. 1½-2 in. rock asphalt, 3.115 mi. 2½ in. penetration bituminous macadam, 2.66 2 in. asphaltic concrete, all foregoing 18 ft. wide on 8 in. sledged stone, 3.361 mi. 4 in. waterbound macadam intermediate course and 1 in. inverted penetration course on 6 in. sledged stone, 18 ft. wide, and 2.717 mi. of 7 in. 1 course cement concrete, 16 ft. wide. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Aug. 5, by State Hy. Dept. at div. office Paris, 6.7 mi. road from Paris, eastward, westward and northeastward, 24 ft., State Aid Project 20.181, Monroe Co. To exceed $25,000. B. H. Piepmeier, Jefferson City, state highway engr. Noted July 20.

Ark., Little Rock—July 31, by H. R. Carter, engr., Exch. Bank Bldg., paving 22,500 sq.yd. Battery St., sheet asphalt or bitulithic on concrete.

Tex., Beaumont—Aug. 15, by Judge Jefferson Co., paving, scarifying, reshaping, etc., 3 mi. road from Port Arthur west to Gulf Co., offices and dock along 7th St.; 3 mi. from Port Arthur west of Gulf Co. refinery along 16th St.; 4½ mi. from Nederland to Port Neches; 3 mi. from here to Spindletop; 4½ mi. from here to a point beyond Brooks along an extension of Franklin St. Work includes 15.7 mi. scarifying and reshaping, 4.434 cu.yd. removing shell surfacing, 37,118 cu.yd. earth roadway and 21,374 cu.yd. earth borrow excav., 4,446 cu.yd. earth overhaul, 88,390 lb. reinforcing, etc. A. C. Love, co. engr.

Tex., San Antonio—Aug. 1, by A. McCloskey, judge Bexar Co., grading, gravel surfacing and topping 2.23 mi. State Highway 9, Pearsel Rd., 18 ft., 21,267 sq.yd. 1 in. bituminous macadam, 542 cu.yd. concrete, 30,100 cu.yd. earth excav., 5,395 cu. yd. gravel surfacing, 67,141 lb. reinforcing. R. E. Killmer, co. highway engr.

Tex., San Marcos—Aug. 3, by J. R. Willhelm, judge Hays Co., paving 3.02 mi. State Highway 29 A, Martindale Rd., 16 ft., incl. 33,591 sq.yd., (a) 1½ in. bituminous treatment using asphaltic oil and crushed rock, (b) 1½ in. limestone rock asphalt, cold application. $25,500 incl. engineering and contingencies. J. W. Puckett, co. engr.

California—Aug. 14, by State Hy. Comn., Sacramento, grading 3.3 mi. highway between Hueneme Rd. and point 3½ mi. southeast, Ventura Co.; asphaltic concrete surfacing 4.3 mi. between Carnadoro and southern boundary, Santa Clara Co. A. B. Fletcher, state highway engr.

Cal., Napa—Aug. 8, by Supervs. Napa Co., improving Charles Valley Rd., 7,500 cu. yd. excav., 236 lin.ft. 12-24 in. corrugated culverts, 40 cu.yd. concrete, 1,200 lb. reinforcing, 2,500 cu.yd. crushed rock or graded gravel. County furnishes corrugated metal pipe and cement. E. Ball, co. surv.

Cal., Sacramento—Aug. 7, by Supervs. Sacramento Co., paving with 2 in. asphalt macadam on 4 in. base 1 mi. Antelope Rd., 16 ft.; 5,963 lin.ft. Sylvan-San Juan Lateral, 16 ft. C. W. Deterding, co. surv.

Cal., San Luis Obispo—Aug. 7, by Supervs. San Luis Obispo Co. improving Avila Rd., 5,500 cu.yd. excav., 8,296 lin.ft. shaping and rolling road-bed, 2,049 cu.yd. concrete pavement, 7,500 lb. reinforcing; Templeton-Willow Creek, Templeton-Creston and Templeton-Vasa Rds., 284 cu.yd. excav., 187 cu.yd. concrete, 128,000 lb. reinforcing. W. B. Burch, Lowe Bldg., engr.

Cal., Santa Rosa—Aug. 15, by Supervs. Sonoma Co., improving 22,490 lin.ft. Guerneville-Jenner Highway, Sects. B and C, 23,000 cu.yd. unclassified excav., (1,336 lin.ft. 12-36 in. corrugated iron pipe to be furnished by county). R. P. Smith, Santa Rosa, engr.

Quebec—Aug. 10, by I. L. Boulanger, Dept. Roads, Parliament Buildings, Quebec, improving 29,006 ft. Levis-Rimouriai, and Levis-St. Lambert Highway, 16 ft., incl. 27,706 ft. bituminous macadam and 1,300 ft. gravel. M. Necktar, Dept. Roads, engr.

Quebec—Aug. 12, by I. L. Boulanger, deputy minister of roads, Quebec, graveling 3.73 mi. Montreal-Sherbrooke Highway, 16 ft., in parish of St. Michel de Rougemont and village of Rouville. M. Necktar, Dept. of Roads, Quebec, engr.

Ontario—Aug. 8, by W. A. McLean, deputy minister roads, Parliament Bldg., Toronto, paving concrete, 2½ mi. road from Arkwood westerly to present pavement, Chatham Twp.; Contr. 776; grading road from Toronto city limits to Kingston Rd., York and Scarboro Twps., Contr. 778. $120,000. G. Hogarth, Parliament Bldgs., ch. engr.

Ontario — Aug. 8, by W. A. McLean, deputy minister highways, Toronto, macadam base, 30 ft. wide, from Clappesons Corner, near Hamilton, 1.9 mi. south, Contr. 777. $40,000. G. Hogarth, Parliament Bldg., engr.

Streets and Roads (Continued)

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids July 21, improving (1) 2.77 mi. Highways 5679 and 8114, Allegany Co., engrs. est. $81,027, (2) 8.35 mi. Highway 8125, Allegany Co., engrs. est. $277,286, (3) 4.23 mi. Highways 5680 and 8127, Fulton Co., engrs. est. $139,051, (4) 2.75 mi. Highway 8124, Oneida Co., engrs. est. $103,331, (5) 7.73 mi. Highways 8100 and 1631, St. Lawrence Co., engrs. est. $220,346, (6) 1.65 mi. Highway 8126, Steuben Co., engrs. est. $25,596, (7) 1.01 mi. Highway 1647, Wayne Co., engrs. est. $52,-569, (8) bridge on Highway 8018-A, Cattaraugus Co., engrs. est. $193,768, from P. H. Murray, Rochester, (1) $71,697, (2) $263,538; S. Rosoff, Warsaw, (1) $74,658; Greenfield Constr. Co., 89 Main St., Hornell, (1) $79,709, (6) $23,566; Sweeney & Boland, Rochester, (2) $246,057; W. L. Collins, Hornell, (2) $246,677, (6) $24,830; S. B. Van Wagenen, Rondout, (3) $132,782; A. V. Leo Constr. Co., Thompson, Conn., (4) $100,126; H. P. Burgard Co., 1968 Fillmore Ave., Buffalo, (5) $210,339; W. D. Fote, Olean, (5) $212,145; Dale Eng. Co., Mann Bldg., Utica, (6) $22,939; F. W. and J. J. Crouch, Rochester, (7) $49,998; Cleveland & Sons Co., Brockport, (7) $50,724; J. DePeter, Red Creek, (7) $51,123; Amer. Pipe & Constr. Co., 112 North Broad St., Phila., (8) $174,829; Eastover Constr. Co., Inc., Herkimer, (8) $186,293; Peckham Constr. Co., Inc., Niagara Life Bldg., Buffalo, (8) $192,357. Noted July 13.

N. Y., Buffalo—Bd. Supervs. Erie Co. opened bids July 17, constructing County Aid Town Highway 97, concrete and asphalt, from H. P. Burgard Co., 1968 Fillmore Ave., $30,780; Rock Asphalt & Construction Co., 1104 Morgan Bldg., $32,157.

Pa., Erie—A. Eichorn, street dir., received bids asphalt paving (1) State St., engrs. est. $77,500, (2) 3,300 sq.yd. 27th St., (3) 2,530 sq.yd. 21st St., from J. and M. Doyle, Erie, (1) $75.132, (2) $2.96 per sq.yd., (3) $2.15; M. A. McCormick Co., Erie, (1) $83,-178, (2) $3 per sq.yd.; Mayers Bros. Constr. Co., Erie, (3) $2.25 per sq.yd. Noted March 2.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 20.488 mi. Montgomery-Tuskegee Rd., Macon Co., from Vaughn Davis Constr. Co., Montgomery, $157,898, Keyser, Gillis & Keenan, Brewton, $162,582, J. F. Giddens & Sons, Troy, $176,453; grading and surfacing with chert 3.48 mi. road from Calhoun Co. line to Heflin, Cleburne Co., from Stanley & Singer Constr. Co., Lafayette, $25,507, Nixon Transfer Co., Anniston, $30,717; grading and surfacing with (a) bituminous macadam, (b) gravel 14.617 mi. road from Athens to Elk River, Limestone Co., from E. L. Batson, Birmingham, (a) $321,654, (b) $157,056, Municipal Paving & Constr. Co., Athens, (a) $364,938. Noted June 29.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 10.297 mi. Sects. D. C. and E Windsor-Geneva Rd. and Sect. "C-1" Painesville-Warren Rd., Ashtabula Co., (a) monolithic brick, (b) bituminous macadam, tar or asphalt, from T. P. Fitzgerald, (a) $311,044 (b) $299,076; Seiple-Wolfe Co., Youngstown, (b) $312,044; Mahoning Constr. Co., Warren, (b) $313,030. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids July 21, grading, bridging and paving roads with (a) bituminous concrete, oil, brick gutter, (b) bituminous concrete, lake, brick gutter, (c) bituminous concrete, oil, concrete gutter, (d) bituminous concrete, lake, concrete gutter, (e) brick, (f) semi-monolithic brick, in following counties: Hancock Co., Sect. "Arlington" Findlay-Kenton Rd., 0.362 mi., from Thompson-O'Roark Co., Toledo, (a) $30,598, (b) $32,040, (c) $27,684, (d) $29,-126; H. E. Pratt Constr. Co., Mt. Blanchard, (a) $32,030, (b) $32,030, (c) $29,-490, (d) $29,490; Dorsey Constr. Co., Findlay, (c) $29,767, (d) $30.078. Hocking Co., Sect. "G-2" Logan-Lancaster Rd., 1.292 mi., from E. N. Turner, Logan, (e) $51,360. Hocking Co., Sect. "L" Logan-Lancaster Rd., 1.776 mi., from E. N. Turner, Logan, (e) $71,300. Tuscarawas Co., Sect. "Newcomerstown" Uhrichsville-Newcomerstown Rd., 0.63 mi., from W. M. Brode Co., Newcomerstown, (f) $31,543; Henderson Bros., Coshocton, (f) $35,552. Muskingum Co., Sect. "R" Zanesville-McConnelsville Rd., 0.96 mi., grading from Stein & Geisel, Niles, $10,651; Sterling Contrs., Akron, $12,488. Noted July 13.

O., Akron—S. Porter, clk. Summit Co., opened bids July 20, grading and paving 8.834 ft. Brittain-Massillon Rd. 49, Sect. D, 17 ft. 4 in., engrs. est. $63,770, and 3.046 mi. Krumroy-Myersville Rd. 130, Sects. A and B, 16 ft., bituminous concrete, engrs. est. $77,900, from T. E. McShaffrey Constr. Co., 171 South Forge St., $59,727 and $77,642 respectively; 6,918 ft. Cuyahoga Falls-Hudson Rd. 34, Sect. B, waterbound macadam with 3 in. bituminous macadam top, 16 ft., from A. F. Wible, 859 Chalker St., $32,885, engrs. est. $34,350; 5 mi. various streets in Fairlawn Heights allotment, 16 ft., bituminous macadam, from Fairlawn Heights Co., Fairlawn, R. F. D. Copley, $108,550, engrs. est. $108,550. Noted July 13.

O., Cleveland—Paving driveways in Highland Park Cemetery, 3,300 cu.yd. earth excav., 12,376 sq.yd. asphalt or concrete, 111,384 sq.yd. 6 in. concrete base, from M. P. Platten, Engineers Bldg., 1 course concrete, $42,978; Garland Bros., Pavers Exch. Society for Savings Bldg., 2 course concrete, $43,244; A. M. Pejsa, Euclid Heights Blvd., Cleveland Heights, asphalt, $52,765.

O., Cleveland—Paving Kinsman Rd. from East 55th to East 79th Sts., 3,700 lin.ft. stone curb, 15,400 sq.yd. asphalt and 110,-000 granite block relaid, from River Constr. Co., Schofield Bldg., $57,653; Cleveland Trinidad Paving Co., The Arcade, $58,725; Rieley Bros., The Arcade, $62,288.

O., Cleveland—Paving (1) East 107th St. from Euclid to Wilbur Aves., (2) East 113th St. from Kinsman Rd. to Regalia Ave., 10,450 sq.yd. vitr. brick, 9.000 sq.yd. relaid granite block and 4,650 sq.yd. asphalt, from Bentley Bros., 1836 Euclid Ave., (1) $13,322; Rieley Bros., The Arcade, (1) $14,136 (2) $12,469; Garland Bros., Pavers Exch. Society for Savings Bldg., (2) $12,191.

O., Columbus—Franklin Co. opened bids July 22, surface treating 28 roads from H. E. McCollister, 2334 East 5th Ave., $24,-611; Byrne-Conway Co., Columbus, $29,754.

O., Euclid—Opened bids July 17, paving (1) Eastbrook, Gilchrist, Glenside, Parkview, Westbrook and Wondergrove Aves., (2) Lakewood and Seabrooke Aves., 11,360 lin.ft. 5 x 20 in. stone curb, 19,750 sq.yd. asphalt, 161,600 sq.ft. concrete base, from River Constr. Co., Schofield Bldg., Cleveland, (1) $61,304, (2) $19,084; H. G. Herring, Pavers Exch. Society for Savings Bldg., Cleveland, (1) $68,080; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (2) $21,302.

O., New Philadelphia—Tuscarawas Co. opened bids July 18 paving Sect. B-2 Strasburg-Bolivar Rd., concrete, from Daley Bros. Constr. Co., New Philadelphia, $49,818.

Wisconsin—State Hy. Dept., Madison, Madison-Verona Rd., Project N. 312, Dane Co., from Odea & Shaffer, 824 East Washington Ave., Madison, 3,143 cu.yd. earth excav., $0.73, 9,000 sq.yd. concrete surfacing $1.37, 11,475 lb. reinforcing steel in pavement $0.04, etc., total $16,397; Reedsburg-Spring Green Rd., Project 243, Sauk Co., from J. Marsch, Inc., 1302 Wrightwood Ave., Chicago, East Route, 43,728 cu.yd. earth excav. $0.35, 2,100 cu.yd. loose rock $0.65, 2,605 cu.yd. solid rock $1.05, 4,636 cu.yd. borrow $0.35, 56,090 lb. structural steel $0.10, etc., total $53,054, West Route, 39,866 cu.yd. earth excav., $0.38, 2,100 cu.yd. loose rock $0.65, 6,754 cu.yd. solid rock $0.95, 5,522 cu.yd. borrow $0.38, 3,102 cu.yd. channel change $0.60, 10,400 lb. structural steel $0.10, etc., total $55,268. Noted July 13.

Wisconsin—State Hy. Dept., Madison, Menomonie-Hudson Rd., Project 1023, and Menomonie-Hudson Rd., Project 1024, both Dunn Co., from Ofstie & Mulheron, Spring Valley, $8,588 and $9,442 respectively. Noted July 13.

Michigan—State Hy. Dept., Lansing, grading and surfacing (1) 2.767 mi. State Trunk Line 59-1, Sect. B, 18 ft., Macomb Co., (2) 2.04 mi. State Trunk Line Rd. 59-2, 18 ft., Oakland Co., from Meredith & McVaugh, 220 Horton Ave., Detroit, (1) $47,381, (2) $32,978; J. A. McKay & Co., 403 Melbourne Ave., Detroit, (1) $47,495, (2) $33,639; T. E. Curne, Detroit, (1) $52,-333; L. A. and P. E. Moran Howell, (2) $33,660. Noted July 6.

Michigan — State Hy. Dept., Lansing, grading and surfacing 4.862 mi. Assessment Dist. Rd. 346, 12 ft., Ionia and Barry Counties, from Saginaw Constr. Co., Saginaw, $33,228; Byam & Whitmore, Eagle, $39,605; Hunter & Prescott, $39,870. Noted July 13.

Mich., Detroit—Paving (1) Baylis Ave. from Fenkell to Puritan Aves., (2) Burke Ave. from Panama to Wagner Aves., (3) Canfield Ave. from Iroquois to Burns Aves., (4) Edgewood Ave. from Van Dyke to Murat Aves., (5) Fairview Ave. from Warren to Shoemaker Aves., (6) Highland Ave. from La Salle to Linwood Aves., (7) Strong Ave. from Sherwood to Helen Aves., (8) Sturtevant Ave. from Pere Marquette R.R. right of way to Linwood Ave., all above 26 ft. wide, 3½ in. sheet asphalt (natural lake or oil) on 8 in. concrete; (9) Fern Ave. from Burton to Martin Aves., (10) Pelouze Ave. from Livernois to Martin Aves., 26 ft. wide 3 in. sheet asphalt (natural lake or oil) on 6 in. concrete; (11) Louis Ave. from Highland Park to Log Cabin Ave., 24 ft. wide 3 in. sheet asphalt (natural lake or oil) on 6 in. concrete; (12) Leslie Ave. from east line of Pere Marquette R.R. right of way to Linwood Ave., 24 ft. wide, 3½ in. sheet asphalt (natural lake or oil) on 8 in. concrete, from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $38,534, (2) $18,873, (3) $8,985, (4) $6,851, (5) $19,399, (6) $14,671, (7) $7,222, (8) $19,182, (9) $7,476, (10) $20,376, (11) $11,177, (12) $18,193; Cleveland Trinidad Paving Co., 402 Hamomnd Bldg., (1) $38,915, (2) $20,-375, (3) $9,589, (4) $7,161, (5) $20,465, (6) $14,325, (7) $7,304, (8) $18,717, (9) $7,778, (10) $21,205, (11) $10,895, (12) 17,738.

Tex., Gonzales—Gonzales Co. opened bids grading and gravel surfacing 9.27 mi. State Highway 29, from R. G. Buckner & Sons, Cleburne, $48,528; D. E. Miller, Port Lavaca, $49,542; McCall-Moore Eng. Co., 308 Amicable Bldg., Waco, $50,081. Noted June 22.

Tex., Karnes City—Karnes Co. grading, surfacing, etc., 14.54 mi. Highway 9 through Rd. Dist. 4 incl. 50,003 lin.ft. header curb, 104,644 cu.yd. roadway and 5,687 cu.yd. borrow excav., 660.5 cu.yd. concrete, 192,694 lb. reinforcing, 25,584 cu.yd. gravel and 20,227 cu.yd. caliche surfacing, from F. P. McElwrath, Corsicana, $107,953, W. T. Hutto & Sons, Gonzales, $108,222, Wear & Thomas, Rogers, $109,224; surfacing with bituminous topping, State Highway 9, 16 ft., (a) inverted penetration asphalt, (b) Uvalde rock asphalt, (cold aplication) from Smith Bros., Crockett, (a) $70,487, (b) $82,235, R. W. Coglazier, Austin St., San Antonio, (b) $88,109, Haden & Austin, Hill and Marsch Sts., Houston, (a) $65,641, (b) $96,186, M. M. Craven, Fredericksburg, (a) $72,690.

California—State Hy. Comn., Sacramento, grading 11.3 mi. highway between Chester Grade and N. E. quarter of Sect. 3, T 28 N., R 9 E., M. D. B. & M., Plumas and Lassen Counties, from Isbell Constr. Co., P. O. Box 584, Fresno, 71,000 cu.yd. excav. at $.145, 225 cu.yd. portland cement concrete (culverts and monuments) $50, etc., total $116,227. Noted June 29.

California—State Hy. Dept., Sacramento, grading and paving with bituminous macadam 16.58 mi. highway between Auburn and Colfax, Placer Co., from C. H. and A. W. Gorrill, Oakland, $408,955; Grant, Smith & Co., Flood Bldg., San Francisco, $425,606; J. A. Costello, Jr., 1083 Shotwell St., San Francisco, $433,678. State furnishes cement, reinforcing steel, asphalt and metal pipe. Noted June 29.

Cal., Hemet—Improving Buena Vista St., et al., 409,700 sq.ft. 4 in. concrete pavement, 8,600 lin.ft. cement curb, 6,600 sq.ft. cement sidewalks, from G. H. Oswald, 366 East 58th St., Los Angeles, $72,785; Southwest Paving Co., 415 Washington Bldg., Los Angeles, $77,369; Wells & Bressler, Santa Ana, $81,390.

Cal., Los Angeles—Improving 4.120 ft. Whittier Blvd. between Rowan St. and Pasadena Ave., 14.791 sq.yd. asphalt, 14,791 sq.yd. concrete, 3,347 lin.ft. concrete curbing, 5,925 cu.yd. excav., 16,026 sq.ft. concrete gutter, from G. R. Curtis, 2440 East 26th St., $80,762; Fairchild-Gilmore-Wilton Co., Los Angeles Ry. Bldg., $97,480; G. H. Oswald, 58th and Towne Sts., $117,583. Noted June 22.

Cal., San Rafael—For 267,000 sq.ft. asphaltic concrete wearing surface on existing roadways, (a) fine graded aggregate type, (b) coarse graded aggregate type, (c) Warrenite bitulithic, from J. A. Costello, 1083 Shotwell St., San Francisco, (a) $30,-920, (b) $30,920, (c) $54,380; S. P. Brownlee, San Rafael, (a) $41,520, (b) $41,520, (c) $41,520; Fay Impvt. Co., Phelan Bldg., San Francisco, (a) $38,622, (b) $41,382, (c) $56,148; Oakland Paving Co., 5000 Bway., Oakland, (a) $42,150, (b) $40,770.

Cal., Stockton—Improving streets in Searchlight Addition, from C. Moreing, Commercial & Savings Bank Bldg., 21,667 cu.yd. excav. at $0.75 per cu.yd., 754 cu. yd. fill $0.25, 10,805 lin.ft. concrete curb and gutter $0.95, 98,301 sq.ft. cement walks $0.20, 355,062 sq.ft. 2 in. asphaltic macadam on 4 in. gravel, $0.155, total $102,349. Noted June 15.

CONTRACTS AWARDED

New Hampshire—State Hy. Dept., Concord, paving 1.67 mi. Daniel Webster Rd., in Hooksett, 18 ft., modified asphalt on crushed stone, to Colburn Constr. Co., Concord, $26,739.

Streets and Roads (Continued)

N. Y., Buffalo—Paving Houghton St., 28 ft., to Rock Asphalt & Constr. Co., Morgan Bldg., $2,021; Cable St., 26 ft., to H. P. Burgard Co., 1968 Fillmore Ave., $15,550, both specification B standard asphalt on concrete; Kirkpatrick and Gorski Sts., both 26 ft., specification B brick on brick, to Erie Contg. Co., Morgan Bldg., $8,536 and $8,995 respectively.

N. Y., Jamestown—Will pave Lincoln St. between 6th & 8th Sts., No. 1 state brick blocks and Hillside brick blocks on 5 in. concrete, Winsor St. between East 2nd and Falconer Sts., Hillside brick blocks on 5 in. concrete; 11th St. between Main and Washington Sts., No 1 state brick blocks on concrete, by day labor under supervision of Bd. Estimate & Review. $25,000. L. Bergman, City Hall engr.

New Jersey—State Hy. Dept., Trenton, for 314,550 gal. lignin binder for State Hy. Dept. and 581,600 gal. lignin binder for repair of gravel roads in New Brunswick, to J. S. Robeson, 435 East State St., Trenton, $29,882 and $51,571 respectively.

N. J., Belvidere—Warren Co., Court House, paving 2½ mi. road between Barkers Corner to Great Meadows, concrete, to Salmon Bros., Netcong, $186,688. Noted July 6.

N. J., Somerville—Somerset Co. constructing 38,419 sq.yd. State Highway Route 16, Sect. 2 Mine Mount Rd. to Bedminster Corner, cement, concrete, to Eng. Constr. Co., 720 Commercial Bldg., Phila., $181,801. Noted June 29.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. paving 9,638 ft. Route 214, Brady Twp., Clarion Co., to T. W. Munro & Co., Du Bois, $81,239, 24,039 ft. Routes 100 and 101, Port Allegheny Boro., Liberty Twp., McKean Co., to G. Metzger, Jr., 12 4th St., Emporium, $197,134, 12,048 ft. Sect. 1 A, Route 4, Salem Twp., Shickshinny Boro., Luzerne Co., to D. L. Risser, 713 Walnut St., Lebanon, $112,682. 8,648 ft. Route 322, Scott Twp., Lackawanna Co., to M and T. E. Farrel Co., 209 West Chestnut St., West Chester, $81,262; rein.-con. and Hillside vitr. brick paving 13,917 ft. Route 251, Bruin Boro. and Parker Twp., Butler Co., to C. E. Walter, Butler, $131,445; 20,057 ft. Route 174, Harford Twp., Susquehanna Co., to R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton, $190,353; 22,171 ft. Route 12, Bridgewater and Dimock Twps., Susquehanna Co., to W. C. Evans, Ambler, $174,472. Noted July 6.

Pa., Altoona—Rein.-con. paving 3,721 ft. 14th St., 20th and 22nd Aves., 22-30 ft., to L. A. Brau, Hollidaysburg, engrs. est. $40,000; 1,980 ft. 25th St. and 4th Ave., 30 ft., to Loomis & King, Central Trust Bldg., engrs. est., $25,000.

Pa., Bradford—To F. D. Ross, 74 High St., paving Mill St., $20,133; York St., $6,765; Hobson Pl. $7,694 and Pearl St. $4,501; sewers in Holley and Willis Aves., $3,511. Noted July 20.

Pa., Monongahela—Resurfacing Marne Ave. between 4th and Meade Sts., concrete, to McCreary Bros. Constr. Co., Braddock, $41,810. Engrs. est. $50,000. Noted Feb. 2.

Pa., Monongahela—Repaving 3rd, 5th, 6th, 7th, 8th, 9th and Parkinson Sts., brick on slag, to Donora Constr. Co., Donora, $25,000. Engrs. est. $27,000.

Pa., Phila.—F. H. Caven, dir. pub. wks., paving (1) 51st St. from Viola St. to Leidy Ave., Tower St. from Roxborough Ave. to Jamestown St., Marshall St. from Brown to Polar Sts., (2) Chester Ave. from 65th to 66th Sts., Percy St. from Emily to Snyder Sts. and Madison St. from Cedar to Aramingo Sts., to Barber Asphalt Paving Co., Land Title Bldg., (1) $25,890, (2) $25,111; Hutchinson St. from Ruscomb St. to Lindley Ave., Indiana Ave. from Broad to 15th Sts., Franklin St. from Wyoming to Louden Sts., to Eastern Paving Co., Colonial Trust Bldg., $26,168; (1) Snyder Ave. from 23rd to 24th Sts. and Brewster Ave. from 83rd to 86th Sts., (2) Delaware Ave. from Columbia Ave. to Dyott St., to Union Paving Co., 34th and Spruce Sts., (1) $27,483, (2) $492,435. Noted July 20.

Pa., Pittsburgh—Repaving Boulevard of the Allies, Contr. 22, to Booth & Flinn, Ltd., 1942 Forbes St., $22,164; repaving (1) Boulevard of the Allies, Contrs. 12 and 20, and Benter St., (2) grading, curbing and paving Bascom St., (3) Bethel Pl., Lillian Way and Nader Way, to T. Cronin Co., South 18th St., (1) $25,480, (2) $32,318, (3) $27,950.

Pa., Sharon—Paving 6,320 sq. yd. Pearl St., Case, Euclid and South Water Aves., resurfacing South Dock St. and South Main Ave., Atlantic asphalt on concrete, to Union Paving Co., 34th and Spruce Sts., Phila., $45,601; repaving 2,330 sq.yd. East State St., asphalt to Minteer & Anderson, New Wilmington, O., $4,645; repaving North Water Ave., Bessemer brick, to W. McIntyre & Sons, Sharon, $10,742. Noted July 6.

Pa., Windber—Concrete curbing and paving 4,675 ft., various streets, 22 and 28 ft., to Buterbaugh & Larson, Windber. Engrs. est. $30,000. Noted June 22.

W. Va., Fairmont—Marion Co. paving brick on 5 in. concrete Water St. and Morgantown Ave., projects 1 and 2, to F. F. Hallam, Fairmont, $82,948; paving with brick in city limits and penetration macadam outside city, Hopewell Rd., Projects 7 and 10, to Monongahela Constr. Co., Fairmont, $37,877, Grafton Rd., Projects 6 and 9, to W. H. Armstrong, Fairmont $58,439; concrete paving Bentons Ferry Rd., Project 8, to N. M. Leigh, Fairmont, $55,342. Noted June 22.

North Carolina—State Hy. Dept., Raleigh, clearing, grading, bridging and topsoiling 9.76 mi. State Project 661, Richmond Co., to McDonald & Brooks, Hamlet, $36,985, 6.92 mi. State Project 402, Chatham Co., to J. F. Mulligan Constr. Co., North Wilkesboro, $30,855; grading, bridging and plain concrete paving 7.83 mi. State Project 743, Vance Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $241,426, 1.56 mi. State Project 420 A and B, Franklin Co., to Chandler & Ragland, Virgilina, Va., $50,383, 10.62 mi. State Project 742, Forsyth Co., to Harris Constr. Co., Newton, $375,516, 11.24 mi. State Project 463, Person Co., to Porter & Boyd, Realty Bldg., Charlotte, $297,428; clearing and grading 12.88 mi. State Project 145, Hertford Co., to N. L. Teer, Durham, $42,035, 13.68 mi. State Project 200, Carteret Co., to Eagle Eng. Co., New Bern, $43,385; grading and plain concrete paving 19.08 mi. State Projects 386 and 387, Robeson Co., to J. O. Heyworth, Harvester Bldg., Chicago, $552,024; grading, bridging and rein.-con. paving .14 mi. State Project 264, Craven and Pamlico Counties, to Rhyme & Kitchen, Blacksburg, S. C., $25,606; grading and plain or rein.-con. paving 5.84 mi. State Project 800, Avery Co., to O'Brien Constr. Co., Balsam, $147,869; grading, bridging and asphaltic concrete paving on cement concrete 5.77 mi. State Project 665, Richmond Co., to A. J. Wardrep, Holston Bank Bldg., Knoxville, Tenn., $176,819; grading and topsoiling 12.82 mi. State Project 419, Franklin Co., to Jamison Bros., High Point, $42,004, rein.-con. bridges and culverts on above to Chandler & Ragland, Virgilina, Va., $15,288; clearing and topsoiling 20.48 mi. State Project 167, Northampton Co., to Virginia Contg. Co., Petersburg, Va., $67,443, rein.-con. bridges and culverts on above to Bacon & Moore, Littleton, $16,597. Noted July 13.

North Carolina—State Hy. Dept., Raleigh, will grade, topsoil, pave with waterbound macadam, construct rein.-con. bridges and culverts on 11.5 mi. road from Caldwell Co. line to Boone, State Project 770, Watauga Co., $160,000; 14 mi. road from 'Boone to Tennessee State Line, State Project 771, Watauga Co., $200,000. Work will be done by day labor. C. M. Upham, state highway engr.

N. C., Southport—Brunswick Co. paving with bituminous macadam penetration type on sand clay, Supply Shallotte Rd., to W. B. Bennett, Whiteville, $77,751.

S. C., Union—Asphalt paving various streets, to Southern Paving Constr. Co., Vol. Life Bldg., Chattanooga, Tenn., $150,000.

Fla., Clearwater—Comr. Pinellas Co. paving with vitr. brick with asphalt filler on 5 in. combined rock base 36.4 mi. Rd. 1 from St. Petersburg to Pasco Co., 11.45 mi. Rd. 2 from Clearwater to Hillsboro Co., 5.93 mi. Rd. 3 from Southerland to Rd. 2, to J. G. Yeates Co., Port Tampa, curbing at $0.47 per lin.ft., base $0.85 per sq.yd., surfacing $2.52 per sq.yd.; surfacing with 2½ in. asphalt on 6 in. rock, 1.05 mi. Rd. 4, 6.35 mi. Rd. 5 from Tarpon Springs to Rd. 3, 7.2 mi Rd. 6 from Dunedin to Ozona and Rd. 1, 4.7 mi. Rd. 7 from Sunset Point to Coachman, 2 mi. Rd. 8 from Clearwater to Haines Rd., 2.32 mi. Rd. 9 from Bellaire to T 29S, R 15 E, 11.4 mi. Rd. 11 from Clearwater to Largo via Indian Rocks, 3.3 mi. Rd. 13 from St. Petersburg to Pt. Pinellas, 2.25 mi. Rd. 14 from Maximo Rd. to Pt. Pinellas Rd., 2.8 mi. Rd. 15 extension of Lake View Ave. (St. Petersburg), 4.25 mi. Rd. 16 from Gulfport to Tampa Bay, to W. P. McDonald Constr. Co., Orlando, and 342 Madison Ave., New York, base $0.90 per sq.yd., surfacing $1.60 per sq.yd. Noted July 6.

Fla., Eustis—For 85,000 sq.yd. 2 in. asphalt on Ocola lime rock, also curbing and guttering various streets to Hutton Eng. & Constr. Co., Kelly Bldg., Savannah, Ga., $225,000. Noted June 15.

Fla., Titusville—Comrs. Brevard Co., improving 7.9 mi. Indian River-Orlando Highway, Spec. Rd. and Bridge Dist. 7, to G. W. Mitchell, Titusville, 5,000 ton coquina rock at $5 per ton, 41,000 sq.yd. bituminous penetration wearing surface $0.23. Noted May 25.

Fla., West Palm Beach—Palm Beach Co., to Maule Paving Co., Jacksonville, resurfacing 3½ mi. Stuart Annie Rd., $10,031, repaving 4.3 mi. St. Lucie Blvd., $21,617, constructing road from Dixie Highway to Stuart Annie, $8,439; to R. Tomasello, West Palm Beach, clearing, grading and paving with ojus rock 9 mi. Jupiter Ocean Blvd., $48,250. Noted March 30.

Fla., Winter Haven—For 120,000 sq.yd. paving, to Stidham & Hughes, Lake Wales. Noted June 8.

Tenn., Knoxville—Paving Elenor, White, Walker Lynch, Patton and Quincy Sts., et al., 22,500 sq.yd. asphalt, to Murry Constr. Co., Holston Bank Bldg., $138,044.

Ky., Harlan—Harlan Co., to Dempster Constr. Co., North Bway., Knoxville, Tenn., grading 6 mi. road, 4 mi. Martin Fork and 3½ mi. Clover Fork Rds., $93,000, $35,000 and $30,000 respectively.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Clinton Co., Sect. "R" Cincinnati-Zanesville Rd., 7.545 mi., brick, to Brewer & Brewer Sons, Chillicothe, $310,953; Columbiana Co., Sect. "A-1" Lisbon-Canton Southern Rd., 3.922 mi., brick, to E. J. Kane, 461 West Indianola Ave., Youngstown, $156,843; Henry Co., Sect. "Napoleon" Wauseon-Napoleon Rd., 0.5295 mi., rein.-con., to Zeller Bros. & McDonald, Maumee, $13,059; Henry Co., Sect. "B" Ottawa-Napoleon Rd., 4.04 mi., to R. Stone Constr. Co., Lima, $70,535; Noble Co., Sect. "O" Cambridge-Caldwell Rd., 4.716 mi., brick, to J. P. Mumaw, Cambridge, $133,199; Pickaway Co., Sect. "New Holland" Cincinnati-Zanesville Rd., 0.923 mi., brick, to Reichelderfer Co., Circleville, $30,297; Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.8 mi., brick, to Reichelderfer Co., Circleville, $32,990; Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.19 mi., brick, to Reichelderfer Co., Circleville, $42,325; Portage Co., Sect. "D" Aurora-Warren Rd., 3.593 mi., brick, to Ready Bros., Warren, $107,572. Noted July 20.

O., Bexley (Columbus P. O.)—Grading, curbing and paving 1,700 ft. Peck Ave., 24 ft., asphalt, to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $24,766.

O., Cleveland—Cuyahoga Co. paving Kinsman Rd., engrs. est. $227,738 and Lee Rd. 6, engrs. est. $69,150, to Cleveland Trinidad Paving Co., The Arcade, $221,277 and $68,334 respectively. Noted July 20.

O., Cleveland—Cuyhoga Co., paving Pleasant Valley Rd. 1, to M. A. Ryan, c/o Pavers Exch., Society for Savings Bldg., $73,616, engrs. est. $87,527. Noted July 13.

O., Columbus—Grading and laying sidewalks on 5 streets, to C. Snyder, 76 West 8th Ave., $7,225; 14 streets, cement, to Standard Paving Co., 685 South Ohio Ave., $19,829. Noted July 6.

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, curbing, laying water mains and paving 2,060 ft. Adams Ave., 24 ft., Mexican asphalt, 410 ft. Mt. Pleasant Ave., 20 ft., brick, and 1,427 ft. Olentangy Blvd., 26 ft., asphalt, to B. F. Patterson, Columbus, $26,270, $6,294 and $25,401 respectively; 247 ft. alley north of 17th Ave., 15 ft., concrete, to R. J. Dienst, 68 South Harris Ave., $1,493; 785 ft. Markison Ave., 24 ft., asphalt, to Franklin Asphalt Paving Co., 209 South High St., $15,620; 1,805 ft. Mooberry St., 26 ft., asphalt, to Knight & Wells, Columbus, $23,265. Noted June 29.

O., Dayton—Montgomery Co. paving Janette St., Kentucky rock asphalt, to W. I. Anderson, R. F. D. 5, New Troy Pike, $18,600. Engrs. est. $25,000. Noted July 13.

O., Euclid—Paving Beachview Ave., to H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., Cleveland, $23,403; Cambridge, Elsmer and Hawthorne Aves., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $22,925.

O., Fremont—Sandusky Co. paving about 1 mi. streets with brick, to Modern Constr. Co., Fremont, $115,617, engrs. est. $115,854.

O., Tiffin—Seneca Co. resurfacing highways, concrete and macadam, to L. W. Dehmer, Tiffin, $15,925, (engrs. est. $21,425); 2 mi. Schreiner Rd., 16 ft., macadam, to Wolfe & Bell, Scipio Bldg., $15,692.

Ind., Monticello—White Co., grading, draining and paving 22,125 ft. Renck. Rd., 16 ft., 37,334 sq.yd. vitr. brick on concrete, to Northern Constr. Co., Elkhart, $115,738. Engrs. est. $125,000.

Ind., New Albany—Floyd Co., grading, draining and surfacing 27,155 ft. Galina Rd., 18 ft. gravel on crushed stone, to Wolfe

Streets and Roads (Continued)

Bros., 217 East 10th St., New Albany, $70,000. Engrs. est. $72,000.

Mich., Dearborn—Wayne Co., 25,000 sq.yd. 8 in. concrete pavement on Park, Maple and Nona Sts., Monroe and Garrison Aves., to P. M. Lau Co., D. U. R. Bldg., Pontiac, $106,470. Noted June 15.

Wis., Juneau—Dodge Co. Road and Bridge Com. concrete paving 1.51 mi. Beaver Dam-South Beaver Dam Rd., 9 ft., to Schreiber & Waterworth, Randolph, $24,820; 4.54 mi. Juneau-Watertown Rd., to M. Martin, Berlin, $83,462. County to furnish cement. Noted July 20.

Ia., Ottuma—Paving 22 blocks various streets, brick paving to J. C. Blunk, Ottumwa, $3.65 per sq.yd.; concrete paving to Layton Constr. Co., Muscatine, $2.91, $3.10 and $3.20 per sq.yd. Engrs. est. $75,000. Noted May 18.

Kan., Enterprise—Paving 18 blocks, asphaltic concrete on 5 in. concrete, to Kaw Paving Co., 506 N. E. Bldg. Topeka. Noted July 13.

Minn., Faribault—Rice Co., Job 2205, State Rd. 26, grading to M. J. Nolan Constr. Co., 609 Kasota Bldg., Minneapolis, $18,099; concrete bridges and culverts to Wessel Bros., 721 Guardian Life Bldg., St. Paul, $7,56, corrugated metal culverts to Northfield Iron Co., Northfield, $1,896; Job 2206, State Rd. 7, grading to Gould & Huntington, Glencoe, $6,374, concrete culverts to W. Weires & Co., Faribault, $1,545, corrugated metal culverts to Northfield Iron Co., Northfield, $305; Job 2207, State Rd. 23, grading to Gould & Huntington, Glencoe. Noted June 22.

Mont., Helena—Paving 4,500 ft. Stuart St., Park and Benton Aves., bitulithic on crushed rock, 41 ft., to S. Birch & Sons Constr. Co., 314 Ford Bldg., Great Falls, $70,752. Noted June 29.

Missouri—State Hy Dept. at div. office Boonville, 5.57 mi. road from Boonville eastward, Federal Aid Project 24, Cooper Co., to E. C. Johnson, Carrollton, $75,570. Noted July 13.

Missouri—State Hy. Dept. at div. office Carrollton, 12.211 mi. road from Ray Co. line to Chariton Co. line, State Aid Project 20.87, Carroll Co., to A. T. Cook, Ottawa, Kan., $31,186. Noted July 6.

Missouri—State Hy. Dept. at div. office Cassville, 7.396 mi. road from Monett to Eureka Springs, Federal Aid Project 124, Barry Co., to Short & Bramer, Monett, $41,781. Noted July 6.

Missouri—State Hy. Dept. at Div. office Fredericktown, 16.391 mi. road from Farmington to Fredericktown and Greenville, Federal Aid Project 101B, Madison Co., to Hogan-Humphreys, Little Rock, Ark., $167,170. Noted July 6.

Missouri—State Hy. Dept. at div. office Greenfield, 7.72 mi. road from Springfield to Lamar, Federal Aid Project 159, Sect. B. Dade Co., to A. T. Bramer & Son, Monett, $27,427. Noted July 6.

Missouri—State Hy. Dept. at div. office Ironton, 11.26 mi. road from Ironton to Polosi, Federal Aid Project 107, Sect. A, Iron Co., to St. Louis Bridge & Supply Co., Frisco Bldg., St. Louis, $40,625. Noted July 13.

Missouri—State Hy. Dept. at div. office Marble Hill, 10,045 mi. road from Lutesville southwestward, Federal Aid Project 174, Sect. A, Bollinger Co., to W. A. Reynolds, Marble Hill, $69,467; 8.499 mi. road from Lutesville northeastward, Federal Aid Project 174, Sect. B, Bollinger Co., to M. E. Gillioz, Monett, $88,652. Noted July 6.

Missouri—State Hy. Dept. at div. office Stockton, 10.416 mi. road from Springfield to Eldorado Springs, Federal Aid Project 74A, Cedar Co., to Easley Bros., Aurora, $32,500. Noted July 6.

Missouri—State Hy. Dept. at div. office Unionville, 6.357 mi. road from Unionville eastward and westward, State Aid Project 20.167, Putnam Co., to Diemer-Williams Constr. Co., Brookfield, $18.964. Noted July 6.

Tex., Richmond—Ft. Bend Co. surfacing and topping 13.01 mi. State Highway 36, 16 ft., to Haden & Austin, Hill and Marsch Sts., Houston, $129,413. Noted May 11.

Tex., San Angelo—Tom Green Co. grading, gravel surfacing, etc., 15.43 mi. State Highway 4, 16 ft., 13.43 mi. grading and surfacing with macadam on gravel with bituminous topping, 2 mi. bituminous topping on section already graded, 1,375 cu. yd. earth, 2,104 cu.yd. loose and 4,207 cu. yd. solid rock excav., 163,965 sq.yd. bituminous macadam, 20,894 cu.yd. crushed rock, 12,958 cu.yd. gravel, 6,486 cu.yd. sledged stone base, 114,776 gal. asphalt, 5,246 cu.yd. cover material, to Harris & Powell, Tyler, $93,357. Engrs. est. $110,000.

Utah, Ogden—Paving road from Harrison Ave. to mouth of canyon, bitulithic on black base, to Taylor & Childs, Ogden, $28,635.

California—State Hy. Dept., Sacramento, grading 8 mi. highway between Johnstonville and Janesville, Lassen Co., to Warren Constr. Co., 2779 Poplar St., Oakland, $37,056.

California—State Hy. Dept., Sacramento, paving 10.8 mi. highway between Canada de las Llagas and Los Chirqueros Creek, Santa Barbara Co., to Southwest Paving Co., Washington Bldg., Los Angeles, 6,720 cu.yd. portland cement concrete (shoulders and repairs to existing base) at $6, 550 cu.yd. removal of broken concrete in existing base $1.50, 18,400 ton asphaltic concrete $3.40, total $103,705; grading 0.2 mi., paving 3.2 mi. with concrete and 5.6 mi. with asphaltic concrete wearing surface, with portland cement concrete shoulders, on road between east boundary and San Juan Creek, Orange Co., to G. H. Oswald, 366 East 58th St., Los Angeles, 6,200 cu.yd. excav., at $0.40, 9,600 cu.yd. portland cement concrete (pavement shoulders and repairs to old base) $8, 300 cu.yd. removal of broken concrete in existing base $1.50, 9,000 ton asphaltic concrete $5.20, etc., total $126,615. State furnishes material. Noted June 22.

Cal., Bakersfield—Asphaltic concrete paving, concrete guttering, cement curbs and walks on D, E, G, K, L, M and P Sts., to Kneen & Austin, Dudley Bldg., Santa Monica, $174,539.

Cal., Banning—Paving and curbing San Gorgonia Ave., to J. F. Knapp, 601 East Main St., Turlock, 75,623 sq.ft. 5 in. concrete pavement at $0.2025 per sq.ft., 26,070 lin.ft. cement curb $0.85.

Cal., Hayward—Improving portions of Watkins, D and 1st Sts., to J. A. Costello, Jr., 1083 Shotwell St., San Francisco, $72,149. Noted June 22.

Cal., Napa—Napa Co. grading and paving 3.16 mi. Browns Valley Rd., 5,000 cu. yd. excav., 5,525 cu.yd. concrete pavement, to Western Constr. Co., 24 California St., San Francisco, $48,544.

Cal., Salinas—Supervs. Monterey Co., will grade 3 mi. Robinson Canyon Rd., 5,000 cu. yd. excav., by day labor. Former bids rejected; H. Cozzens, Salinas, engr. Noted June 22.

Cal., South San Francisco (San Francisco P. O.)—Improving various streets in Tecks Tract, 2,000 cu.yd. grading, 85,465 sq.ft. 1½ in. topeka on 4 in. concrete, 154 lin.ft. concrete curb and gutter, 5,375 ft. 14 in. gutter, 770 sq.ft. concrete walks, 4,000 lin.ft. 4 in. sewer pipe laterals, to Eaton & Smith, 407 11th St., San Francisco, $28,065.

Cal., Whittier—Improving Penn St., to Fairchild-Gilmore-Wilton Co., Los Angeles Ry. Bldg., Los Angeles, 199,889 sq.ft. 6 in. concrete pavement at $0.26 per sq.ft., 4,542 lin.ft. cement curb $0.60, 15,500 sq.ft. cement walks $0.22.

Ontario—Dept. Provincial Highways, Parliament Buildings, Toronto, 18 ft. concrete highway leading into St. Catherines, to Frid Constr. Co., Clyde Blk., Hamilton. Engrs. est. $75,000.

Ont., Ft. Frances—Concrete paving Main St., 26 and 30 ft., to J. East Co., Ft. Frances, $33,950. Engrs. est. $34,000. Noted June 22.

Industrial Works

PROPOSED WORK

Mass., Holyoke—Farr Alpaca Co., Jackson St., having plans prepared by S. M. Greene & Co., engrs. and archts., 293 Bridge St., Springfield, 6 story, 100 x 500 ft. yarn mill, rein.-con. and brcik. $1,000,000. Noted July 6.

N. Y., Buffalo—J. Schaaf, 974 Northampton St., plans specialty factory and shop. $75,000. Private plans.

N. Y., Buffalo—Washington-Crosby Co., Minneapolis, Minn., plans 4 story warehouse, fireproof construction, at Blackwall Canal and Michigan Ave., here. $200,000, Architect not announced.

N. Y., Elmira—Elmira Water, Light & R. R. Co., plans large artificial gas manufacturing plant to include gas holder, 500,000 ft. capacity, Madison Ave. $350,000. F. H. Hill, gel. mgr.

N. Y., Owego—Gotham Shoe Co. plans factory addition, Church St. $50,000. Architect not announced.

N. J., Trenton—Hulslander Engraving Co., 8 North Stockton St., plans 4 story, 47 x 143 ft. plant.

N. J., Trenton—F. A. Straus & Co., Johnston Ave., having plans prepared by Karno-Smith Co., archts., Broad St. Bank Bldg., 2 story, 80 x 187 ft. and 3 story, 100 x 100 ft., rein.-con. and brick additions to yarn factory. $150,000.

Pa., Bethlehem—Confederated Home Abattoirs Co., Portland, Me., plans abattoir, here. $1,000,000. Architect not selected.

Pa., Pittsburgh—Atlantic Refining Co., Chamber of Commerce Bldg., purchased 7½ acre plot adjoining present plant along Allegheny River, and plans to extend same and erect numerous storage houses. Cost exceeds $50,000. Engineer not announced.

Pa., Stroudsburg—Nitroloid Corp. of America, plans to rebuild celluloid factory recently destroyed by fire. $250,000. Architect not announced.

W. Va., Huntington—Fesenmier Packing Co., 14th St. and Madison Ave., having preliminary plans prepared converting building into ice and cold storage plant. Cost including machinery and equipment, $125,000-$150,000. M. L. Fesenmier, pres. Architect and engineer not announced.

N. C., Raleigh—Sanitary Laundry Co., South Blount St., plans 2 story, 80 x 177 ft., concrete and steel laundry, South McDowell St. $50,000. C. H. Howell, mgr.

Fla., Tallahassee—West Florida Power Co. plans hydro-electric plant, Ocklockonee River. $1,000,000. Engineer not announced.

Tenn., Knoxville—J. G. Sterchi having plans prepared by R. F. Graf & Sons, archts. and engrs., Arnstein Bldg., 3 story, 100 x 100 ft. factory, Jackson Ave. $60,000.

O., Cleveland—Ingraham Waste & Supply Co., 1539 Columbus Rd., having plans prepared by Poe Eng. Co., archts., Peoples Bank Bldg., 1 story, 50 x 125 ft., brick and steel warehouse and factory, 1450 Hamilton Ave. $50,000. Noted June 8.

O., Cleveland—Natl. Lead Co., c/o C. E. Lindsley, Comptroller, 632 Champlain Ave., plans 2 story, brick, steel and concrete warehouse, East 38th St. and St. Clair Ave. $150,000. Architect not selected.

O., Middletown—Amer. Rolling Mill Co., East Side, plans to rebuild portion of its mill, destroyed by fire. $100,000. Architect not announced.

O., Sandusky—Chamber of Commerce, Sandusky, and Ajax Rubber Co. of New York, plan rubber factory, here. $1,000,000. Private plans.

O., Sebring — Saxon China Co., South Side, plans large additions to pottery factory, incl. 3 glass, 3 bisque and 4 decorating kilns. $100,000. Private plans.

O., South Akron (Akron P. O.)—Washington Rubber Co. plans to rebuild large portion of factory, destroyed by fire. $50,000. T. Tyrell, pres. Architect not announced.

O., Warren—K-W. Brick Co. plans factory, Clinton St. To exceed $50,000. R. Swift, mgr. Architect not announced.

Ind., Evansville—Evansville Pure Milk Co., 501 U 8th St., plans 1 story, 60 x 72 ft. brick power plant, 8th and Walnut Sts. $50,000. Private plans.

Ind., Indianapolis—See "Buildings."

Ind., Indianapolis—Cleveland, Cincinnati, Chicago & St. Louis R.R., La Salle St. Sta., Chicago, plans 2 story, 75 x 1,000 ft. and 30 x 1,000 ft. freight terminal, brick and steel, here. $2,500,000. Private plans.

Ind., Plymouth—Schlasser Bros. plan 3 story, 45 x 90 ft. storage plant, brick. $150,000. M. R. Carpenter, 72 West Washington Street, Chicago, archt.

Mich., River Rouge (Detroit P. O.)—Ford Motor Co., Highland Park, having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 5 story, 60 x 300 ft., rein.-con., brick and steel factory addition, plain and wood pile foundation.

Mo., LaValle—LaValle Light & Power Co plans hydro-electric plant and complete development of water power for lighting purposes. To exceed $100,000.

Mo., Springfield—Springfield Gas & Electric Co., Landers Bldg., plans new power plant. $800,000. Engineer not announced.

Tex., Waco—Missouri, Kansas and Texas R. R., 404 Times-Herald Bldg., plans to expend $800,000 for locomotive repair shop. A. S. Johnson, supt. Architect not announced.

Okla., Muskogee—Oklahoma General Power Co. plans power and light plant, initial capacity 10,000 hp. Engineer not announced.

Cal., Fresno—San Joaquin Light & Power Co., 1801 Tulare St., had plans prepared 48 x 110 ft. addition to sub-station, Orange Ave., increasing capacity from 10,000 to 17,000 hp. $102,000.

Cal., Los Angeles—Pub. Serv. Comn., 210 South Bway., having plans prepared 7 substations and extending power and light lines. $6,000,000. City will take bids for equipment. Some work will be done by day labor, balance by contract. E. F. Scattergood, 210 South Bway., engr.

Industrial Works (Continued)

Cal., San Diego—Klauber-Wangenheim Co., 402 Market St., having plans prepared 6 story, warehouse, 7th, I and J Sts. $300,000.

Cal., Stockton—X-clusive Laundry, 427 East Lafayette St., plans 1 story, 92 x 150 ft., laundry, Lafayette and California Sts. $50,000. Architect not selected.

Ont., London—J. W. McLaughlin, 629 Queens Ave., having plans prepared garage and repair shop. $42,000.

BIDS DESIRED

Conn., Hartford—Greenwood & Noerr, archts. and engrs., 847 Main St., taking bids 4 story, 52 x 181 ft. rein.-con. and brick factory addition, Capitol Ave., for Hart Hegeman Mfg. Co., Capitol Ave. $125,000.

O., Cleveland — M. Makoff, 551 Hippodrome Annex Bldg., taking bids and opens same about Aug. 1, 2 story, 32 x 64 ft., plant and commercial building, brick and steel, 500 Eagle Ave. $40,000. A. F. Janowitz, Permanent Bldg., archt.

Wis., Waukesha—Spring City Auto Co., 220 Main St., W., taking bids 1 and 2 story, 50 x 132 ft., concrete garage, plain foundation. $40,000. M. H. Blake, Andrews Blk., archt.

Okla., Okeene—See "Waterworks."

Cal., San Francisco—M. V. Politeo, archt., 1st Natl. Bank Bldg., receiving bids 1 story, concrete and steel factory, Howard St. near 5th St., for Eames Co., 55 1st St.

Ont., Leaside—Durant Motors of Canada, 909 Royal Bank Bldg., Toronto, taking bids auto factory, incl. 1 story, 40 x 100 ft. brick, 3 story, 80 x 401 ft. rein.-con., 3 story 100 x 401 ft. rein.-con., 1 story, 20 x 200 ft., steel and galvanized iron, and 1 story, 130 x 500 ft. metal lath stucco and brick buildings, here. $500,000. Private plans with E. A. Walberg, c/o owner. Noted March 30.

BIDS RECEIVED

N. Y., Waterford—C. L. Cadle, supt. Pub. Wks., Albany, opened bids July 14, shop buildings here, Baldwinsville and Pittsford, from W. F. Martens, 244 Cutler Bldg., Rochester, $99,470; McCann Building Co., Dove St. and Sheridan Ave., Albany, $104,838; W. S. Rae, Oliver Bldg., Pittsburgh, Pa., $110,250.

Cal., Sacramento—Crane Co., Front and M Sts., 4 story, rein.-con. warehouse, Front and M Sts., from McGillivray Constr. Co., Capitol Natl. Bank Bldg., $136,000; W. C. Keating, Capitol Natl. Bank Bldg., $137,500; W. Murcell, Oschsner Bldg., $141,964. Noted July 20.

CONTRACTS AWARDED

Pa., Dallas—See "Buildings".

Pa., Hatboro—Roberts & Manders Stove Co., 11th and Washington St., Phila., 2 story, 16 x 60 ft. and 125 x 185 ft. factory, rein.-con., brick and steel, plain foundation, to Austin Co., Bulletin Bldg., Phila. Archts. est. $50,000.

Pa., Phila.—Apex Hosiery Co., 6 story, 90 x 155 ft. factory, rein.-con., brick and steel, plain foundation, Lawrence and Luzerne St., to Belling & Bush, Drexel Bldg. Archts. est. $150,000.

Pa., Phila.—National Biscuit Co., 10th Ave. and 15th St., New York City, 1 story, 130 x 184 ft. garage, rein.-con., brick and steel, 12th and Glenwood St., here, to Turner Constr. Co., 1716 Samson St. Archts. est. $50,000.

Md., Cumberland—N. & G. Taylor Co., Inc., 300 Chestnut St., Phila., 1 story, 50 x 90 ft. foundry, also extension to tin house, here, to Belmont Iron Wks., 22nd St. and Washington Ave., Phila.

W. Va., Parkersburg—General Porcelain Co., South Side, 1 story, 65 x 225 ft., brick and steel plant, to Plate & Vogel, Parkersburg.

Tenn., Knoxville—C. B. Johnson, West Main St., 2 story, 75 x 175 ft., publishing house, rein.-con. and steel, concrete pile foundation, Church St., to Worsham Bros., Empire Bldg., $60,000.

O., Akron—M. O'Neil, c/o General Tire & Rubber Co., 2 story, 95 x 163 ft., brick, steel and concrete garage, West Market St., to Akron Storage & Contg. Co., Cole Ave. and Sherman St. Archts. est. $100,000. Cadillac Co., Akron, lessee. Noted July 6.

O., Akron — Hardware Building Co., 2 story, 125 x 470 ft., rein.-con. and flat slab warehouse, South High St., to Carmichael Constr. Co., 524 Hamilton Bldg., $250,000.

O., Cleveland—T Knight, 250 The Arcade, 1 story, 75 x 100 ft., brick and steel factory, Fairfield Ave., to Lehder Constr. Co., Rose Bldg. Archts. est. $40,000.

O., Dayton—Dayton Power & Light Co., Jefferson St., 5 story, 85 x 180 ft. electric power plant, rein.-con., brick and steel, Millers Ford, to T. E. Murray, Inc., 55 Duane St., New York City, $300,000.

Ind., Indianapolis—Jackson Power Bldg., c/o Vonnegut, Bohn & Mueller, archts., Indiana Trust Bldg., 7 story, 120 x 195 ft. brick and steel warehouse, South Meridian St., to R. W. Bauman Constr. Co., 3345 Central Ave., $212,000.

Ill., Chicago—Pelton & Pelton c/o Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., 2 story, 100 x 175 ft. factory, rein.-con., brick and steel, 3317-19 Elston Ave., to Broline, Nolan & Co., 5 North La Salle St. archts est. $65,000.

Wis., Kenosha—E. Klinkert Brewing Co., 826 Washington Ave., Racine, 2 story, 30 x 90 ft. mill construction warehouse, plain foundation, West Main St., to K. P. Knudsen, 473 Pomeroy St. Engrs. est. $40,000.

Minn., South St. Paul—Katz & Horne Packing Co., South St. Paul, and 352 East 6th St., St. Paul, 3 story, 50 x 130 ft. rein.-con., brick and tile packing plant, general contract to G. Lindgren, 724 Como Blvd., St. Paul, $130,000. Noted May 25.

Cal., Napa—Growers Packing & Warehouse Co., Jackson St., subsidiary of California Prune & Apricot Growers Assn., Market and San Antonio Sts., 141 x 144 ft., heavy timber addition to packing plant, to West Coast Constr. Co., Clunie Bldg., San Francisco, $65,000. Noted June 29.

Cal., Oakland—General Electric Co., Rialto Bldg., San Francisco, 132 x 236 ft., brick and steel factory, 14th and 54th Sts., here, to Foundation Co., 58 Sutter St., San Francisco, $100,000.

Cal., Oakland—Star Motor Co. of California, c/o Durant Motor Co., East 14th St., 100 x 200 ft., brick warehouse, 80 x 150 ft., brick and concrete administration building, to P. J. Walker Co., Monadnock Bldg., San Francisco. Plant complete will cost $1,000,000.

Cal., San Jose—Central Improvement Co., 2 story, autogarage depot, concrete, Market St., to D. J. Byron, 1249 Alameda St., $41,715. Peninsular Rapid Transit Co., 119 South Market St., lessee.

Buildings

PROPOSED WORK

Conn., Hartford — Apartment — Fantone Bros., 72 Capitol Ave., having plans prepared by R. A. D'Avino, archt., 721 Main St., 6 story, brick and concrete, Capitol Ave. $150,000.

Conn., New Britain—School—St. Joseph's Roman Catholic Church plans 2 story, brick and steel, Edson St. $150,000. P. Daly, Edson St., pastor. Architect not selected.

Conn., New London—Schools—Bd. Educ. plans two 2 story, Federal St. and Riverview Ave. $150,000. Architect not selected.

Conn., Winsted—School—Boro plans 2 story grade school. $200,000. J. Lund, supt. schools. Architect not announced.

N. Y., Lackawanna—Hotel—Hoepfinger Bros. plan 7 story, Ridge Rd. $450,000. Architect not announced.

N. Y., Newark—Theatre and Office—Associated Theatres, Inc., having plans prepared by E. A. P. Krabbenschmidt, archt., Newark, 3 story, 75 x 132 ft., litholite stone, stucco, pressed brick and steel, West Miller and South Main Sts. $150,000.

Pa., Corapolis—Church and Sunday School—Corapolis Methodist Episcopal Church having plans prepared by T. B. and L. Wolfe, archts., Century Bldg., Pittsburgh, 150 x 220 ft. stone church and Sunday school, State Ave. $150,000. A. Lindsay, pastor.

Pa., Williamsport—Club House—Fraternal Order of Eagles, 470 Pine St. plans 3 story club house. $150,000. Architect not announced.

Pa., York—Hotel—C. Welsh had plans prepared by Toohey & McClymont, archts., 342 Madison Ave., New York City, remodeling Hotel Penn, 4 story, 96 x 130 ft., granite, brick and terra cotta, and adding 2 story, George St. $300,000.

W. Va., Charleston—Office—Kanawha Investment Co. plans 8 story, 161 x 168 ft., concrete and steel, Summers and State Sts. Architect not selected.

N. C., Asheville—Apartment Hotel—J. E. Swain (representing owners) plans 6 story, Haywood St. and Cumberland Ave. $250,000. Architect not announced.

N. C., Chapel Hill—Memorial—University of North Carolina having plans prepared by T. C. Atwood, engr., Chapel Hill, for first unit of Graham Memorial, 2 story, on old inn site. $150,000.

N. C., Kinston—Institution—Caswell Training School plans administration building. $400,000, and ultimately other buildings to cost $890,000. C. B. McNairy, supt.

N. C., Raleigh—School—City having plans prepared by F. Simpson, archt., 110 East Lane St., for Thompson school, 2 story, 120 x 162 ft., brick and stone. Hargett St. $153,000. T. B. Eldridge, mayor.

Ala., Montgomery—Schools—Voted $1,000,000 bonds for schools. Bids soon building number of schools including high school. J. M. Garrett, member of Bd. Educ.

Tenn., Harriman—School—Woman's Bd. of Home Missions of U. S. A., 156 5th Ave., New York City, having plans prepared by R. F. Graf & Sons, archts. and engrs., Arnstein Bldg., Knoxville, 3 story, 30 x 70 ft., home mission school, here. $150,000.

Tenn., Knoxville—Municipal—City having plans prepared by A. B. Bauman, archt., 813 Market St., 6 story, 40 x 185 ft. Market Sq. $150,000. A. R. Frierson, Knoxville, engr.

Tenn., Knoxville—Sanitarium, etc.—City having plans prepared by A. B. Bauman, archt. and engr., 813 Market St., 3 story, 40 x 85 ft., sanitarium and cottage, Beverly Pl. $150,000.

Tenn., Nashville—Office—Marshall & Bruce Printing Co., 162 4th Ave., N., having plans prepared by Hart & Nevins, archts., Watkins Bldg., office and printing plant, 9th and Berryhill Sts., $150,000. Freeland, Roberts & Acker, Independent Life Bldg., engrs.

O., Akron—Office and Mercantile—United Cigar Stores Co., 44 West 18th St., New York City, plans 8 story, Main and Market Sts., here.

O., Cleveland—Apartment—S. Selden and I. Passov, 799 East 99th St., having plans prepared by M. Altschuld, archt., 5114 Woodland Ave., 3 story, 46 x 110 ft., brick and timber, Superior Rd. $150,000.

O., Struthers—High School—Bd. Educ. will sell $160,000 bonds Aug. 7, enlarging Euclid Ave. High School, brick. M. H. Stewart, clk. Architect not announced.

Ind., Indianapolis—Sales, etc.—Olin Sales Co., 515 North Meridian St., plans 3 story, 59 x 195 ft. sales and service station, rein.-con. and terra cotta. 720-722 North Meridian St. $150,000. Architect not selected.

Ind., Muncie—Temple—Masonic Temple Assn., West Main St., having plans prepared by Kibele & Gerrard, archts., Johnson Bldg., 6 story, 116 x 198 brick and steel. $700,000.

Mich., Detroit—Apartment—R. A. Bailey, archt., 92 Peterboro St., preparing plans 4 story, 75 x 120 ft., brick, steel and stone, plain foundation, Linwood Ave. $200,000. Owner's name withheld.

Mich., Detroit—Church—Jefferson Ave. Methodist Church, 1123 Marlboro Ave., having plans prepared by W. S. Holmes, archt., Tussing Bldg., Lansing, 2 story, brick, steel, stone and concrete, plain foundation, Jefferson and Marlboro Aves. $150,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmson, Higginbotham & Palmer, archts., 405 Moffat Bldg., 2 story, 14 room, rein.-con., brick and steel, plain foundation, Dickerson Ave. $150,000.

Mich., Iron Mountain—Academy—Franciscan Sisters, Alverno, (R. D. Manitowoc) Wis., having preliminary sketches prepared by E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 3 story, brick and concrete, plain foundation, here. $250,000.

Mich., Mt. Clemens—High School—Bd. Educ. had plans prepared by J. C. Llewellyn Co., archts., 38 South Dearborn St., Chicago, 2 story, 140 x 260 ft., brick, steel, stone and rein.-con., plain foundation, Cass Ave. $650,000.

Ill., Chicago—Apartment, Store and Office—Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., soon receive bids 2 story, 100 x 125 ft., rein.-con., brick and steel, Fullerton and North Cicero Aves. $150,000. Owner's name withheld.

Wis., Milwaukee—Apartment—Glengile Realty Co., c/o Voelz & Siebert, archts., 373 Bway., preparing plans 2 story, 112 x 118 ft., brick and tile, plain foundation, Stowell Ave. $150,000.

Wis., North Milwaukee—High School—Joint School Dist. 17, 398 34th St., plans 2 story, brick, concrete and tile, plain foundation. $200,000-$300,000. Architect not selected.

N. D., Minot—Hospital—Trinity Hospital Assn. plans 5 story, 38 x 120 ft., rein.-con., brick, tile and stone. $150,000. A. O. Fonkalsorud, mgr. Architect not selected.

Cal., Fullerton—City Hall—City Trustees having preliminary plans prepared by W. H. Austin, archt., 222 First Natl. Bank Bldg., Long Beach, city hall, brick, Spadra Rd. $225,000.

Cal., Fullerton—Office—M. E. Durfee, archt., Casson Bldg., Anaheim, takes bids

Buildings (Continued)

about Aug. 1, 5 story, 70 x 130 ft., steel, Wilshire Ave., here, for C. C. Chapman, Chapman Bldg., Los Angeles. $150,000.

Cal., Los Angeles—Apartment—A. Bard and O. I. Low, having preliminary plans prepared by Russell & Alpaugh, archts., Story Bldg., 4 story, 90 x 145 ft., brick and concrete, 7th and Catalina Sts. $250,000.

Cal., Pasadena—Church—All Saints Episcopal Church had preliminary plans prepared by Johnson, Kaufman & Coate, archts., 100 East Colorado St., concrete and steel, concrete foundation, Euclid Ave. $225,000.

Cal., San Diego — G. W. Marston and others, 3525 7th St., conducting campaign to raise $150,000 to be applied toward construction of Army and Navy Y. M. C. A. building here. Total cost $750,000, ($600,000 of which is to be provided by national council of Y. M. C. A.) Project includes dormitories, clubhouse, athletic field, etc.

Cal., Santa Barbara—High School—Bd. Trustees, Anapamu and De la Vina Sts., having preliminary plans prepared by Weeks, Sauter & Lockard, archts., San Marco Bldg., concrete and brick, Carrillo St. $450,000. Noted April 13.

Cal., Santa Monica—Lodge—Santa Monica Lodge 906, B. P. O. E., having plans prepared by Russell & Alpaugh, archts., Story Bldg., Los Angeles, 4 story, brick, $250,000.

BIDS DESIRED

N. Y., Astoria (Long Island City P. O.)—School—Aug. 2, by C. B. J. Snyder, supt. schools, Concord St. Brooklyn, for new P. S. 170, on 12th Ave., here.

N. Y., Pelham Manor—Hall—Aug. 7, by Bd. Village Trustees, extension to village hall. E. D. Litchfield & Rodgers, 477 5th Ave., New York, archts.; adv. this issue.

Pa., Erie—Orphanage—Aug. 10 by J. M. Gannon, bishop, 205 West 9th St., orphanage on 6th St., for St. Joseph's Home for Children. $400,000. J. P. Brenot, Opera House Bldg., Oil City, archt. Noted March 16.

Pa., Pittsburgh—School—Aug. 10 by Bd. Educ., Fulton Bldg., 2 story, brick and steel addition to school on Hazelwood and Gladstone Sts. $200,000. O. M. Topp, Jenkins Arcade, archt. Noted May 4.

Pa., State College—Dormitory—Day & Klauder, archts., Franklin Bank Bldg., Phila., receiving bids 4 story, 42 x 106 ft., rein.-con., brick, steel and cut limestone, for Pennsylvania State College, here. $200,000.

O., Akron—Court House—Aug. 12, by S. Porter, clk. Summit Co., Court House, 3 story, 72 x 177 ft. stone or terra cotta annex, plain foundation, South Bway. $350,000. Harpster & Bliss(234 Central Savings & Trust Bldg., archts. Noted July 20.

O., Cleveland—Bank and Office—July 28, by Cleveland Trust Co., East 9th St. and Euclid Ave., 2 story, 60 x 80 ft., brick, steel and concrete, East 123rd St. and Superior Ave. $150,000. Osborn Eng. Co., 2848 Prospect Ave., archts.

O., Cleveland—Commercial, Theatre and Apartment—F. W. Bail, archt., Hanna Bldg., taking bids and opens same about July 29, 1, 3 and 4 story, brick, steel and concrete, East 105th St. and St. Clair Ave., for Clair-Doan Co., c/o J. Laronge, 214 Williamson Bldg. $300,000.

O., Cleveland—Temple—Aug. 14, by C. R. Greco, archt., Guardian Bldg., 3 story, brick, concrete and steel, East 105th St. and Ansel Rd., for Tifereth Israel Congregation, c/o H. Silver, rabbi, East 55th St. and Scovill Ave. $350,000. Noted June 29.

O., Louisville—High School—Aug. 12, by Thayer & Johnson, archts., New Castle, Pa., 2 story, brick and steel, for School Dist., here. $150,000. Noted Oct. 27.

O., Rocky River—High School—July 31, by Bd. Educ., 2 story, 14 room, brick, steel and concrete addition. $225,000. W. H. Nicklas, 1900 Euclid Ave., Cleveland, archt.

Mich., Detroit—Office—L. Kamper, archt., Kamper Bldg., 3729 Cass Ave., taking bids and opens same about Aug. 5, 21 story, 60 x 100 ft., rein.-con., brick, steel, terra cotta and stone, Washington Blvd., for J. B. Book, Book Bldg.

Mich., Detroit—School—Aug. 9, by Bd. Educ., 1354 Bway. Ave., 3 story, 168 x 334 ft., rein.-con., brick and steel, plain foundation, Selden and Hamilton Sts. Malcolmson, Higginbotham & Palmer, 405 Moffat Bldg., archts. Noted June 22.

Mich., Saginaw—School—Aug. 8, by Secretary Bd. Educ., Manual Training Bldg., 2 story, 22 room, rein.-con., brick, steel and stone, plain foundation, also 1st unit of detached power house, Webber St. $250,000. J. F. Beckbissinger, 114 South Jefferson Ave., archt.

Ill., Chicago — Apartment — Rissman & Hirschfield, archts., 64 West Randolph St., receiving bids 3 story, 100 x 120 ft., rein.-con., brick and steel, Sacramento Blvd. and Augusta Ave., for H. Levine, 2708 West Division St. $160,000.

Ill., Chicago—Store—J. A. Armstrong, archt., 127 North Dearborn St., receiving bids 3 story, 100 x 120 ft., rein.-con., brick and steel, 862-72 East 63rd St. for L. & R. Steel Co., 323 Washington St., Buffalo, N. Y. $175,000.

Ill., Chicago—Store and Office—J. H. Bickley, 10 South La Salle St., receiving bids 3 story, 45 x 125 x 140 ft., rein.-con., brick and steel, California Ave. and George St. $150,000. Minchin, Spitz & Co., 19 West Jackson Blvd., archts.

Minn., Mankato—School—Aug. 8, by State Bd. Control, Capitol, St. Paul, for State Teachers College, here, 3 story, irregular shaped, rein.-con., brick, tile and stone. $250,000. D. F. Mullen, secy. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archts. Noted March 9.

N. D., Dickinson—School—Aug. 4 (change of date) by State Bd. of Administration, Bismarck, 3 story, 110 x 300 ft., rein.-con., brick, tile and stone, State Normal School Campus, here. $250,000. Keith & Kurks, Fargo, archts. Noted July 13.

Utah, Ogden—Gymnasium—Aug. 9, by Mormon Church, South Temple St., Salt Lake City, 80 x 240 ft., at Weber College, 2445 Jefferson Ave., here. $300,000. Woods & Jensen, Eccles Bldg., archts. Noted Dec. 8.

Ont., Owen Sound—School—Aug. 16, by Watt & Blackwell, archts., Bank Toronto Bldg., London, stone and tapestry brick, for Bd. Educ. $250,000. Prices wanted on all materials. Noted July 13.

BIDS RECEIVED

N. Y., Brooklyn—Schools—Bd. Educ., 500 Park Ave., New York, opened bids July 18. (1) P. S. 161, Crown St. near New York Ave., (2) P. S. 189, East New York Ave., both brick, steel and stone, plain foundations, here, from Frymier & Hanna Co., 25 West 45th St., New York, (1) $594,000; P. J. Brennan & Son, 624 Madison Ave., New York, (1) $594,300, (2) $577,500; G. F. Driscoll Co., 115 Schermerhorn St., (1) $604,000 (2) $589,000; T. A. Clarke Co., 122 Livingston St., (2) $573,000. Noted July 13.

CONTRACTS AWARDED

Conn., New Britain—Trade School—School Comr., 3 story, 72 x 198 ft. brick and steel, plain foundation, South Main St., to Immick Co., State St., Meriden. Archts. est. $150,000. Noted July 6.

Conn., West Hartford—Office, etc.—See "Waterworks".

N. Y., Buffalo—School—Bd. Educ., 1401 Telephone Bldg., school on Case St., general contract, to W. W. Wade, 816 Ashland Ave., $299,137; heating work, to Power Efficiency Corp., White Bldg., $64,990.

N. Y., Buffalo—School—Bd. Educ., 1401 Telephone Bldg., general contract. P. S. 65, 2 story, 130 x 201 ft., rein.-con., brick and steel, Skillen St., to Eastern Concrete Steel Co., Morgan Bldg., $220,522. Noted June 29.

N. Y., Buffalo—Store—Hens & Kelly Co., 478 Main St., 5 story, 90 x 207 ft., rein.-con., brick and steel, Main St., to C. Berrick & Sons, 1151 Main St., $700,00. Noted May 4.

N. Y., New York—Store—Starrett & Van Vleck, archts. and engrs., 8 West 40th St., 9 story, brick, steel and stone, 5th Ave. and 50th St., to Cauldwell Wingate Co., 381 4th Ave., for Saks & Co., Bway. and 33rd St. Archts. est. $2,000,000. Noted July 6.

Pa., Dallas—Home—Sisters of Mercy, 161 South Washington St., Wilkes-Barre, 3 and 4 story, 50 x 152 ft. mother house, and 1 story, 43 x 59 ft. power house, to F. V. Warren Co., 132 South 17th St., Phila. Archts. est. $500,000.

Pa., Leechburg—High School—Bd. Educ. 3 story, brick and steel, to Ley Constr. Co., Westinghouse Bldg., Pittsburgh. Archts. est. $250,000. Noted June 1.

Pa., McKeesport—High School—Bd. Educ. 2 story, 90 x 275 ft., brick, steel and terra cotta, to E. H. Canon, McKeesport. Archts. est. $300,000. Noted June 22.

Pa., Phila—Church House—First Presbyterian Church, Germantown, 2½ story, 32 x 32 and 60 x 70 ft., rein.-con., brick and steel, Chelten and Germantown Aves., to H. H. Wehmeyer, 519 West Cumberland St., $150,000.

Pa., Phila. — Office — Heyman Bros., Weidner Bldg., 8 story, 39 x 89 ft., rein.-con., brick and steel, plain foundation, 15th and Locust Sts., to F. V. Warren Co., 132 South 17th St., archts est. $170,000.

Pa., Phila—Office—Reformed Church of America, 15th and Race Sts., 13 story, 120 x 120 ft., brick steel and stone, plain foundation to Cramp & Co., Denckla Bldg., $650,000. Noted July 6.

Pa., Phila—School—Bd. Educ., 19th and Chestnut Sts., for school, Salmon and Auburn Sts., to McCloskey & Co., 1610 Thompson St., $171,000.

Va., Richmond—Theatre—A. L. Strause, et al., 5 Govenor St., 3 story, 7th and Broad Sts., to J. S. Wilson, Mutual Bldg., Engrs. est. $400,000.

W. Va., Huntington—Store and Office—Solof-Schonthal Interest, c/o A. Solof, Reliance Bldg., general contract 5 story, 70 x 200 ft., 4th Ave and 12th St. to American Eng. Co., Charleston. Archts. est. $150,000.

N. C., Charlotte—Hotel—Citizens Hotel Co., 12 story, 100 x 193 ft., brick, concrete and steel, to J. A. Jones Constr. Co., Realty Bldg., $713,480. Noted July 6.

N. C., Charlotte—Store—Efird Bros., 208 Fayetteville St., 5 story, brick, concrete and steel, to J. A. Jones Constr. Co., Realty Bldg., $236,000. Noted June 29.

Fla., Miami—Church and Sunday School—Church of Holy Name, 3 story, rein.-con., plain foundation, to St. John Constr. Co., Miami, $199,903. Noted May 25.

Miss., Vicksburg—Memorial—Y. M. C. A. 4 story, 95 x 140 ft., rein.-con., steel and brick, to Underwood Contg. Co., Louisiana Bldg., New Orleans, $150,000.

La., Baton Rouge—Bank—Central Savings Bank and Trust Co., 1 story, rein.-con. and steel, to Underwood Contg. Co., Louisiana Bldg. Archts. est. $200,000.

Ia., Ft. Madison—High School—Bd. Educ. general contract for 3 story, 150 x 178 ft., rein.-con., brick, tile and stone, to J. W. Hopp Co., 415 Granby Bldg., Cedar Rapids, $215,000. Noted June 22.

Ia., Maquoketa—High School—Bd. Educ. general contract 2 story, rein.-con., brick and tile, to Currie-Simpson Co., Waterloo, $162,480. Noted June 15.

Tenn., Knoxville — Apartment — E. S. Worsham, 13th St., 4 story, 85 x 125 ft., brick and steel, concrete pile foundation, Cumberland St. W., to Worsham Bros., Empire Bldg., $180,000.

O., Akron—Clubhouse—Portage Country Club, 45 x 120 ft., tile and stucco, Portage Path, to Carmichael Constr. Co., 524 Hamilton Bldg., $140,000. Noted April 20.

O., Bellaire—Bank—Natl. Bank, 8 story, 40 x 120 ft., brick and terra cotta, 32nd and Belmont Sts., to C. D. Keyser & Co., Bellaire. Archts. est. $400,000. Noted July 6.

O., Cleveland—Apartment—G. H. Tipling, 407 Rockwell Ave., masonry contract 3 story, 38 x 154 ft., brick and steel, plain foundation, 2033 East 77th St., to D. Lindhorst Constr. Co., 1602 Holmden Ave. Archts. est. $50,000. Noted June 1.

O., Cleveland Heights (Warrensville P. O.)—Apartment—A. Palevsky, 1450 East 105th St., masonry contract 4 story, 90 x 96 ft., brick and steel, Overlook Rd., to J. Miller, 2381 East 46th St., Cleveland. Archts. est. $150,000. Noted May 18.

O., Dayton—High School—Bd. Educ., Roosevelt High School, 3 story, rein.-con. and brick, plain foundation, incl. plumbing and heating work, to Walbridge-Adlinger Co., 2356 Penobscot Bldg., Detroit, Mich., $1,434,210. Noted July 20.

O., Zanesville—Hotel—W. M. Bateman, pres. Zane Hotel Co., 6 story, 133 room, rein.-con., brick and steel, concrete pile foundation, to Blanchard Building Co., 928 Lindsay Bldg., Dayton, $350,000.

Ind., Marion—High School—Bd. Educ., 2 story, 170 x 217 ft. brick, 36th and Washington Sts., to Morrow & Morrow, 1126 East Main St., Muncie, $239,500. Archts. est. $300,000.

Mich., Detroit—Church and Rectory—St. Hyacinthe Parish, McDougall Ave., 2 story, brick, steel and rein.-con., plain foundation, McDougall Ave., masonry to J. Nowakowski & Co., 400 Penobscot Bldg. Engrs. est. $150,000.

Ill., Chicago—Apartment—W. C. Krieg, archt., 105 North Clark St., 3 story, 125 x 155 ft., rein.-con., brick and steel, Gladys and Central Aves., to G. H. Cook Constr. Co., 105 North Clark St. Archts. est. $225,000. Owner's name withheld.

Ill., Chicago—Apartment—Parkway Plaza Building Corp. c/o Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., 3 story, rein.-con., brick and steel, Clark St.

Buildings (Continued)

near Fullerton Parkway, to A. E. Johnson, 5356 Belle Plaine Ave. Archts. est. $175,000.

Ill., Chicago—Church—F. K. Byrne, archt., 104 South Michigan Ave., 1 story, 100 x 200 ft., rein.-con., brick and steel, Kimbark Ave. and East 55th St., to Byrne & Ryan, 104 South Michigan Ave. Archts. est. $150,000. Owner's name withheld.

Ill., Chicago—Office—G. E. Clements, c/o Clark & Walcott, archts., 86 Huron St., 5 story, 50 x 150 ft., rein.-con., brick and steel, 223-25 West Lake St., to J. Sheddon & Co., 106 North La Salle St. Archts. est. $150,000.

Ill., Chicago—Lowe & Bollenbacher, archts., 108 South La Salle St., 5 and 6 story, 125 x 125 ft., rein.-con., brick and steel, 53rd St. and Dorchester Ave. to C. B. Johnson & Son, 111 West Washington St., for Y. M. C. A. c/o architects. Archts. est. $400,000. Noted May 11.

Wis., Ashland—Bank—Ashland Natl. Bank, 1 story, 50 x 90 ft., brick, concrete and stone, plain foundation, to Tomlinson & Egan, Ashland, $109,500. Engrs. est. $150,000. Noted June 29.

Wis., Institute (Sturgeon Bay P. O.)—School Bd. Educ. 2 story, 75 x 110 ft., brick, rein.-con. and stone high and grade school, plain foundation, to Anschulz & Wulf, Sturgeon Bay. Engrs, est. $150,000. Noted Feb. 2.

Wis., Milwaukee—Store and Office—Zingen & Braun, 548 12th St., 2 story, 100 x 150 ft., brick and concrete, plain foundation, 6th and Sycamore Sts., concrete to E. Steingerwald & Sons, 2303 Galena St.; masonry, to A. Buchholz, 840½ 36th St.; structural steel, to Milwaukee Structural Steel Co., 19th St. and St. Paul Ave. Engrs. est. $150,000. Noted June 1.

Ia., Rock Rapids—High School—Bd. Educ. general contract 3 story, 61 x 200 ft., rein.-con., brick, tile and stone, to Spencer Constr. Co., Spencer, $134,108. Noted June 22.

N. D., Fargo—School—Bd. Educ., general contract 2 story, rein.-con., tile, brick and stone, 16th St. and 3rd Ave. S., to Meinecke-Johnson Co., Fargo, $110,880. Noted June 29.

Ark., Jonesboro—Hospital—Sisters of St. Benedict, 3 story, 50 x 128 ft., rein.-con. steel and brick, to Estes-Williams-Ragsdale, Madison Ave. Bldg., Memphis, Tenn. $104,000. Noted May 4.

Col., Colorado Springs—Auditorium—City, general contract for auditorium, to H. W. Baum & Co., Walker Bank Bldg., Salt Lake City, Utah, $269,300; plumbing, to A. E. Olsen, 1116 North Wahsatch St. $54, 600. Engrs. est. $325,000. Noted June 22.

Cal., Berkeley—Bank—Federal Land Bank, 2 story, rein.-con., Fulton St. opposite Kittredge St., to Lawton & Vezey, 357 12th St., Oakland, $109,900. Noted July 13.

Cal., Pasadena—School—Bd. Educ., 2 story, 16 room, brick, to Wopschall Bros., 360 South Raymond Ave., $152,523. Noted June 15.

Cal., Reedley—High School—Reedley Joint Union High School Dist., group of brick and concrete buildings, concrete, carpentry, mill work and floors, to P. F. Reilly, 180 Jessie St., San Francisco, $184,020; brick and tile to F. F. Smith, 984 Thorne St., Fresno, $40,825; plumbing and heating to Visalia Plumbing Co., Visalia, $30,564 and $29,243 respectively; lathing and plastering to J. B. Rickert, Los Angeles, $36,489. Noted June 15.

Cal., San Bernardino—Auditorium—City Council 2 story, 100 x 126 ft., rein.-con. and steel, concrete foundation, to F. Hudson, Higgins Bldg., Los Angeles, $152,781. Noted June 15.

Cal., San Diego—Theatre and Office—Cuyamaca Building Co., 7 story, B St. between 5th and 6th Sts., to Lange & Bergstrom, Tinker Bldg., $1,054,000.

Cal., San Francisco—Store and Office—A. F. Rousseau, 110 Sutter St., will build 2 story, brick and concrete, Market St. near 7th St., by day labor. To exceed $200,000. Application filed with City Building Bureau to erect steel frame (only) cost $110,000. Permit for balance of work to be secured later. D. C. Coleman, 110 Sutter St., archt. Noted April 13.

Cal., San Pedro—Hotel—J. D. Finley will build 4 story, 100 x 130 ft., rein.-con., 6th and Mesa Sts., by day labor. $200,000. W. F. Bowen, 813 Union League Bldg., Los Angeles, archt.

N. B., St. John—School—School Trustees, 2 story, 130 x 142 ft. brick, West St. John, to H. O. Clark, St. John, $151,585. Noted July 13.

Federal Government Work

PROPOSED WORK

N. Y., Buffalo—Repairing Breakwall—U. S. Government, Federal Bldg., plans repairing breakwall, here. J. G. Warren, Federal Bldg., dist. engr.

BIDS DESIRED

Mass., Chelsea—Mortuary—Spec. 4635—Aug. 2 by Bureau Yards & Docks, Navy Dept., Wash., D. C., mortuary at Naval Hospital, here. Noted May 18.

N. Y., Staten Island—Riprap—Aug. 2, by Supt. Lighthouses, Staten Island, furnishing and placing 24,000 long ton riprap stone around light dolphins in Raritan Bay, New Jersey.

Md., Annapolis—Refrigerating Plant—Aug. 2 by Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating plant at U. S. Naval Academy, here.

Md., Baltimore—Dredging—Aug. 21 at Office U. S. Engineer, dredging in Baltimore Harbor and channels; adv. this issue.

D. C., Wash.—Lighthouse Tender—Aug. 15 by Comr. Lighthouses, 19th St. and Pennsylvania Ave. N. W., for construction and equipment, stern-wheel, steel, steam stem-propelled lighthouse tender Greenbrier for use in Ohio River.

Va., Norfolk—Dredging—Aug. 23 at Office U. S. Engineer, dredging in Norfolk Harbor; adv. this issue.

Va., Quantico—Retaining Walls—Aug. 23 by Bureau Yards & Docks, Navy Dept., Wash., D. C., retaining walls at Marine Flying Field, here.

Tenn., Memphis—Cement—Aug. 1, at Office Mississippi River Comn., 1st and 2nd Dists., Custom House, furnishing portland cement; adv. this issue.

Ill., Chicago—Pools—Aug. 1, by Treas. Dept., Wash., D. C., pools in U. S. Veterans Hospital, here. J. A. Wetmore, acting superv. archt.

Wis., Fond du Lac—Post Office—Aug. 22, by Treas. Dept., Wash., D. C., U. S. Post Office, here.

Mo., St. Louis—Electric Pump—Aug. 15, by Treas. Dept., Wash., D. C., electric pump for turbine in U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Tex., Houston—Oil Burning Apparatus—Aug. 12, by Treas. Dept., Wash., D. C., oil burning apparatus in U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.

Utah, Spanish Fork—Post Office—Aug. 22 by Treas. Dept., Wash., D. C., for U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Ariz., Yuma—Motors, etc.—Sept. 6 at Office U. S. Recl. Serv., Denver, Col., furnishing motors, transformers, etc., for Valley Drainage pumping plant, Yuma Project. A. P. Davis, dir.; adv. this issue.

Ore., Klamath Falls—Canal—Aug. 31 at Office U. S. Recl. Serv., Klamath Falls, 11 mi. main canal, Langell Valley Division, Klamath Project, Oregon-California. A. P. Davis, dir.; adv. this issue.

Ore., Klamath Falls—Timber Turnout, etc.—Aug. 12 at office Recl. Serv., Klamath Falls, timber turnout, etc., on laterals of Tule Lake Div., Klamath Project; adv. this issue.

Cal., Mare Island—Circulating Loop—Spec. 4684—Aug. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., circulating loop for central power plant, here. Noted July 13.

Cal., San Diego—Wire Partitions—Spec. 4696—Aug. 16, by Bureau Yards & Docks, Navy Dept., Wash., D. C., wire partitions at naval base, here.

Cuba, Guantanamo—Chimney and Flue—Spec. 4695—Aug. 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., chimney and flue, here.

BIDS RECEIVED

Ala., Tuskegee—Fire Alarm System—Treas. Dept., Wash., D. C., fire alarm system at U. S. Veterans Hospital, here, from Michigan Auxiliary Fire Alarm Co., 4108 Woodward St., Detroit, Mich., $3,984; Michaels & Co., Inc., Norfolk, Va., $4,987; Crocker Natl. Fire Prevention & Eng. Co., New York City, $5,212. Noted June 29.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer, Providence, dredging in Harbor here to J. S. Packard Dredging Co., 1054 Turks Head Bldg., $11,400.

N. Y., Buffalo—Remodeling—Treas. Dept., Wash., D. C., remodeling and repairing U. S. Post Office and Custom House, here, to Mosier & Summers, 1266 Seneca St., $78,000. Noted May 4.

N. Y., Oswego—Cornice, etc.—Treas. Dept., Wash., D. C., restoring cornice, replacing roof construction, etc., on U. S. Post Office, here, to Garber & Cissel, Bethlehem, Pa., $60,000. Noted June 29.

Md., Baltimore—Dredging—U. S. Engineer, Baltimore, dredging Wicomico River to Arundel Corp., Pier 2, Pratt St., $7,542. Noted June 8.

D. C., Wash.—Conduit—U. S. Engineer Office, 250 Old Land Office Bldg., various sections water supply conduit, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $2,058,726. Noted June 22.

Ga., Augusta—Grilles—Treas. Dept., Wash., D. C., grilles in U. S. Veterans Hospital, here, to G. E. Wright, Monadnock Blk., Chicago, $12,540. Noted June 22.

Fla., Apalachicola—Post Office, etc.—Treas. Dept., Wash., D. C., for U. S. Post Office and Custom House, here, to Devault & Deitrick, Massilon Rd., Canton, O., $59,817. Noted July 20.

La., New Orleans—Steel Ladder, etc.—U. S. Engineer Office, 329 Custom House, steel ladder, pipe gears, etc., for U. S. Dredge Gulfport, to Ellicott Machine Corp., Bush and Severn Sts., Baltimore, Md., $23,365. Noted June 22.

Ky., Vanceburg—Dam—U. S. Engineer, 2nd Dist., Cincinnati, O., Dam 32, Ohio River, near here, to Dravo Contg. Co., Diamond Bldg., Pittsburgh, Pa., $1,224,867. Noted July 13.

O., Chilo—Dam—U. S. Engineer, 405 Customhouse, Cincinnati, Dam 34, Ohio River, near here, to Natl. Contg. Co., Citizens Bank Bldg., Evansville, Ind., $1,385,147. Noted July 13.

Mich., Detroit—Gate Engines—U. S. Engineer, 337 Federal Bldg., furnishing and installing 6 operating engines for gates of Poe Lock, Saulte Ste. Marie, incl. motors, controllers resistances, etc. to Green Bay Dry Dock Co., Green Bay, Wis., $20,410. Noted July 20.

H. T., Pearl Harbor—Machine Shop—Spec. 4518—Bureau Yards & Docks, Navy Dept., Wash., D. C., machine shop at Naval operating base, here, to W. F. Martens, 112 Cutler Bldg., Rochester, N. Y., $185,366. Noted June 15.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

304—Winchester Water Wks. Co., 14 Beacon St., Boston, Mass.—Wants permit to develop power at U. S. Lock and Dam 10, in Kentucky River, power to pump water about 4 mi. to companys existing reservoir, supplying water to Winchester, Ky.

305—C. M. Eye, 1006 Hobart Bldg., San Francisco, Cal.—Wants license for 2 mi. transmission line from existing power house to mine in Tuolumne Co.

306—J. Wittmann, 469 5th Ave., New York—Wants permit for irrigation and power project on Hassayampa River, in Yavapai and Maricopa Counties, Ariz. Project includes large reservoir at Walnut Grove and another near Wickenburg.

307—Thebo, Starr & Anderton, Inc., San Francisco, Cal.—Wants permit for dam 300 ft. high and power house in American River, 15 mi. northwest of Placerville, in El Dorado National Forest, El Dorado Co.

308—Enterprise Electric Co., 521 1st Ave., Spokane, Wash.—Wants license for diversion dam in East Fork of Wallowa River, Wallowa Co., Ore. Project includes 1 mi. pipe line to power house and transmission line to nearby communities.

309—Clarion River Power Co., 14 Wall St., New York—Wants license for dam and power house in Clarion River between Beaver and Paint Twps., Clarion Co., Pa.

310—Northern States Power Co., 208 South La Salle St., Chicago, Ill.—Wants preliminary permit for reservoir and 2 power dams on St. Croix River, lower dam located at present Nevers Dam, middle one below Kettle Falls, upper one above Kettle Falls. This project was originally part of Project 250.

311—F. A. Bryan, c/o Indiana and Michigan Electric Co., 220 West Colfax Ave., South Bend, Ind.—Wants preliminary permit for dam and power house in St. Joseph River, 6 mi. above mouth in Berrien Co., Mich.

312—Molybdenum Co. of America, 1008 Empire Bldg., Pittsburgh, Pa.—Wants license for 3 dams, conduits and power houses on Red River and Columbine Creek, Taos Co., N. M.

313—Murtagh Irrigation Dist., c/o Porter & Witham, Twin Falls, Idaho—Wants permit for diversion dam in Snake River, near Auger Falls, another in Rock Creek 1½ mi. above its mouth, and conduits to common power house at mouth Rock Creek.

314—Mutual Power Assn., Weiser, Idaho—Wants permit for diversion dam in Crane

Federal Power Commission (Continued)

Creek, Washington Co., 3 mi. conduit to power house and 25 mi. transmission line to 3 pumping stations on Snake River.

315—Carolina Power and Textile Co., c/o G. G. Reiniger, Asheville, N. C.—Wants permit for 5 power projects in Pisgah National Forest, Henderson and Transylvania Counties, 3 on South Fork and 1 on Rocky Fork of Mills River, and 1 on Davidson River. Project includes transmission line to Asheville.

316—Clarion River Power Co., c/o C. B. Hawley, 450 Munsey Trust Bldg., Wash., D. C.—Wants permit for power house and dam 240 ft. high, in Clarion River, near Mill Creek. Project to create slack water to Ridgway, Pa.

317—Clarion River Power Co., c/o C. B. Hawley, 450 Munsey Trust Bldg., Wash., D. C.—Wants permit for power house and dam 150 ft. high, in Clarion River, near Foxburg, Pa.

318—American Super-Power Corp., c/o E. C. Randell, pres., 504 Iroquois Bldg., Buffalo, N. Y.—Wants permit to divert 12,000 cu.ft. per second from Niagara River, at point near Cayuga Island, La Salle, N. Y. Project includes 6½ mi. canal to power house in Lewiston.

319—Louisville, Ky.—City wants permit to develop power at proposed reconstructed U. S. Lock and Dam, Louisville Falls, Ohio River, Louisville, Ky.

320 — Nevada-California Power Co., Riverside, Cal.—Wants permit for 4 storage reservoirs on headwaters of Bishop Creek, a tributary of Owens River, Inyo Co., Cal.

321—Colorado Power Co., Symes Bldg., Denver, Col.—Wants license for 4 transmission line extensions as follows: 14.16 mi. Cocomonga to Saguache; 3.29 mi. Bonanza to Eagle Mine; 1.69 mi. Bonanza to Express Mine; 1.84 mi. Bonanza to Queen City Mine.

Miscellaneous

PROPOSED WORK

Dock Wall, Buffalo, N. Y.—Making preliminary plans constructing dock wall in harbor at Buffalo Yacht Club, foot of Porter Ave. $100,000. G. H. Norton, Municipal Bldg., engr.

Swimming Pool—Buffalo, N. Y.—Dept. Parks and Pub. Bldgs., Municipal Bldg., plans swimming pool and other improvements at Riverside Park. $30,000. F. V. Tyler, city clk.

Street Lighting System—Phillipsburg, N. J.—Dept. Pub. Wks. Plans ornamental lighting system consisting of 96 iron standards installed 100 ft. apart. $25,000-$36,000.

Fair Grounds—Allentown, Pa.—Lehigh Co. Agricultural Society, Stiles Bldg., purchased 200 acres and is having surveys made for fair grounds. Bascom & Sieger, Allentown Natl. Bank Bldg., engrs.

Drilling—Bradford, Pa.—Forest Oil Co., 78 Main St., plans drilling 84 wells in Bradford Field. $500,000. F. D. Dorn, pres.

Retaining Wall—Mauch Chunk, Pa.—Making surveys for retaining wall along or near tracks of Jersey Central R. R. $75,000. M. Biery, Allentown, engr.

Suburban Development—Raleigh, N. C.—Allen Bros. Realty Co., 8 West Martin St., having surveys made developing 80 acres on North Person St. Work includes grading, paving and extending water and sewer lines. $100,000. D. Allen, pres.

Park Development—Salisbury, N. C.—City plans to convert urban property into park and residential section. Work includes grading, paving, water and sewer mains. $100,000. E. H. Harrison, Salisbury, in charge.

Transmission Line—Wilmington, N. C.—Tide Water Power Co., plans extending transmission line 53 mi. from here to Warsaw and possibly from Warsaw to Clinton. F. A. Matthes, vice-pres.

Wells—Bowling Green, Ky.—E. T. L. Sutton, Titusville, Pa., plans drilling 8 wells for oil and gas, near here. $30,000.

Ice Skating Rink—Cleveland, O.—B. J. La Vetter, 102 Engineers Bldg., having plans prepared by M. Weis, archt., 618 Union Bldg., 1 story ice skating rink, brick and steel, West 76th St. and Lake Ave. $150,000.

Elimination of Grade Crossings—Columbus, O.—City, Cleveland, Cincinnati, Chicago & St. Louis, R.R., La Salle St. Sta., Chicago, Pennsylvania R.R., Pennsylvania Sta., Pittsburgh, and Hocking Valley R.R., Spahr Bldg., Columbus, plan eliminating grade crossing on Dennison Ave., here. City sold $250,000 bonds (its share toward cost). R. H. Simpsom, city engr.

Transmission Lines—Logan, O.—Ohio Power Co., plans 30 mi. high tension transmission lines from here to Lancaster, also from here to Nelsonville.

ROAD WORK—AKRON, OHIO

Following are lowest bids opened July 5 by M. P. Tucker, dir. Pub. Serv., for grading and paving East Talmadge Ave. from Columbia Ave. to east corporation line, (A) McAlonan Bros., 506 Woodland Ave., (awarded contract for sheet asphalt pavement); (B) T. E. McShaffrey Constr. Co., 171 South Forge St.; (C) V. Olson Contg. Co., Herberich Bldg. The unit bids were as follows:

	A	B	C
23,000 cu.yd. grading	$0.55	$0.60	$0.50
250 cu.yd. trench excavation	2.00	1.25	2.00
12,400 lin.ft. under drains 4-in. pipe	.15	.12	.15
1 manhole readjusted	2.00	5.00	3.00
7 manholes readjusted, new frame and cover	15.00	20.00	15.00
20 cu.yd. concrete, class 1	12.00	12.00	15.00
250 cu.yd. concrete, class 2	10.00	12.00	12.00
10,965 lin.ft. sandstone curb hand dressed	1.35	1.35	1.35
50 lin.ft. sandstone circular curb	2.00	2.00	2.50
1,410 lin.ft. granite circular curb	3.50	3.50	3.75
10 lin.ft. sandstone curb redressed	.35	.35	.20
10 lin.ft. curb reset	.35	.35	.20
400 lin.ft. granite stone headers	2.50	3.00	3.50
600 lin.ft. sand stone headers	1.00	1.00	1.00
20,400 sq.yd. concrete base 6-in. thick	1.20	1.40	1.23
20,400 sq.yd. concrete base 7-in. thick	1.50	1.65	1.60
20,400 sq.yd. concrete base, 8-in. thick	1.80	1.90	1.90
20,400 sq.yd. standard brick pavement (cement filler)	2.10	2.10	2.00
20,400 sq.yd. standard brick pavement (asphalt filler)	2.20	2.20	2.10
2,200 sq.yd. standard brick gutter (cement filler)	2.50	2.20	.....
18,200 sq.yd. sheet asphalt pavement, plan B (Trinidad)	2.00	1.77	.....
18,200 sq.yd. sheet asphalt pavement, plan B (Texaco)	1.80	1.65	.....
18,200 sq.yd. sheet asphalt pavement, plan B (Mexican)	1.80	.....	.....
10 sq.yd. brick pavement relaid	2.00	2.50	3.00
63,700 sq.ft. cement walk two-course	.19	.20	.165
6,120 sq.ft. cement driveway	.26	.25	.26
1,500 lb. reinforcing steel	.05	.05	.10
60 lin.ft. galvanized iron railing	2.50	1.00	2.00
14 concrete monuments	10.00	10.00	10.00
18 street signs acc. 5383	25.00	25.00	25.00
280 shade trees	5.00	5.00	6.00
400 lin.ft. 4-in. w.i. pipe drain	.60	.60	.60
Extended totals for standard brick pavement (cement filler), 7-in. concrete base	$128,911	$133,790	$127,839
Extended totals for standard brick pavement (asphalt filler), 7-in. concrete base	130,951	135,830	129,879
Extended totals for sheet asphalt pavement (Trinidad), 7-in. concrete base	127,971	128,004	.....
Extended totals for sheet asphalt pavement (Texaco), 7-in. concrete base	124,331	125,820	.....
Extended totals for sheet asphalt pavement (Mexican), 7-in. concrete base	124,331	.....	.....

Electric Lighting and Power Distribution System—Muncey, Ont.—Caradoc Twp. having surveys made 11 mi. line between Delaware and Melbourne. $33,000. J. Brodie, clk. Work will commence early in August under supervision of J. N. Wilson, engr., 190 University Ave., Toronto.

BIDS DESIRED

Portland Cement—New York, N. Y.—Aug. 3, by H. Bruckner, pres. Bronx Boro., Municipal Bldg., Crotona Park, for 3,500 bags Portland cement.

Retaining Wall—Trenton, N. J.—Aug. 4, rein.-con. retaining wall along Delaware River. $25,000. A. Swan, City Hall, engr.

Transmission Line, etc.—Hobgood, N. C.—Aug. 15, by Mayor and Bd. Comrs., furnishing material for 7 mi. transmission line from here to Scotland Neck, also material for distribution of electricity in Hobgood. E. L. Bradley, clk.

Heating Oil Distributor—Ft. Myers, Fla.—Aug. 9, by Bd. Comrs. Lee Co., one 800 gal. heating oil distributor on 3 ton F. W. D. County truck. R. P. Ransome, Ft. Myers, engr.

Seawall—Port Tampa, Fla.—Aug. 1, 260 lin.ft. concrete seawall, 35,000 cu.yd. dredging. $25,000. McElroy Eng. Co., 32-34 Giddens Bldg., Tampa, engrs.

Ash Handling Equipment—Madison, Wis.—Mead & Seastone, engrs., State Journal Bldg., taking bids ash handling equipment for power house, at Madison Gas Co., 120 East Main St.

Brick and Asphalt Filler—Waukesha, Wis.—A. P. Kuranz, engr., City Hall, taking bids 50,000 sq.yd. brick and asphalt filler. $30,000 bond issue voted for above.

Power Plant Equipment—Detroit, Minn.—July 31, by city, 1 generating unit, steam engine driven, 300 kva. capacity; one 250 hp. water tube boiler; stokers for boiler in foregoing. $32,000. E. J. Bastick, clk. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

Wood Blocks and C.I. Specials—St. Paul, Minn.—July 31, by H. W. Austin, city purch. agt., 496 sq.yd. 3½ creosoted wood blocks for Dept. Pub. Wks.; 11.55 ton c.i. water pipe specials for Water Dept.

Granite Facing Stone—Lincoln, Neb.—Aug. 2, by S. E. McKelvie, chn., and E. Johnson, secy. State Capitol Comn., 335,280 cu.ft. granite facing stone in rough blocks. B. A. Goodhue, 3 West 47th St., New York City, archt.

Crane—Aberdeen, Wash.—Aug. 6, by Port of Grays Harbor, at office of Commission, 206 East Wishkah St., mill type traveling crane. F. H. Lamb, pres.; adv. this issue.

Cement—Napa, Cal.—Aug. 8, by Supervs, Napa Co., furnishing and delivering in carload lots 10,000 bbl. cement.

Electric Light Equipment—Hanna, Alta.—Aug. 7, by C. N. Tingle, member of City Council, installation of 100 kw. generator and exciter direct connected to compound steam engine, one 50 kw. unit similar to above, two 150 hp. return tubular or water tube boilers and accessories, incl. mechanical stokers, switchboard and street lighting equipemnt, transformers and copper wire. $29,000. Haddin & Miles, Calgary, engrs.

Strain and Pin Type Insulators—Melbourne, Australia—Sept. 16, by R. Liddelow, secy. State Electricity Comn. of Victoria, Melbourne, Victoria, Australia, strain and pin type insulators, Specification 261; adv. this issue.

BIDS RECEIVED

Asphaltic Paving Cement—New York, N. Y.—J. Miller, pres. Manhattan Boro, opened bids July 20, furnishing and delivering 500 ton asphaltic paving cement, from Standard Oil Co., 26 Bway., $18.40 per ton; Warner Quinlan Co., 79 Wall St., $20.50. Noted July 13.

Lumber, etc.—New York, N. Y.—Bd. Purch., Municipal Bldg., opened bids July 21, furnishing and delivering creosoted and plain yellow pine lumber, also granite and wood paving blocks to Dept. Plant & Structures, from G. Elias & Bro., 22 East 17th St., $43,505, alternate $42,793; Eppinger & Russell Co., 165 Bway., $725; H. J. Fitzgerald, $25,027. Noted July 13.

Stadium—Madison, Wis.—University of Wisconsin opened bids July 17, concrete and steel addition to stadium, from W. F. Tubesing, 373 Bway., Milwaukee, $28,952; J. H. Findorff Son Co., 601 West Wilson St., $30,028; C. B. Fritz Co., 138 North Frances St., $30,082. Noted July 6.

CONTRACTS AWARDED

Elimination of Grade Crossings—Buffalo, N. Y.—Grade Crossing Comn., 436 Ellicott Sq., constructing road bed and tracks of Erie R.R. in connection with grade crossing elimination on East Ferry St., Delevan and Kensington Aves., to Miller Constr. Co., Lock Haven, Pa., $209,334. Noted June 1.

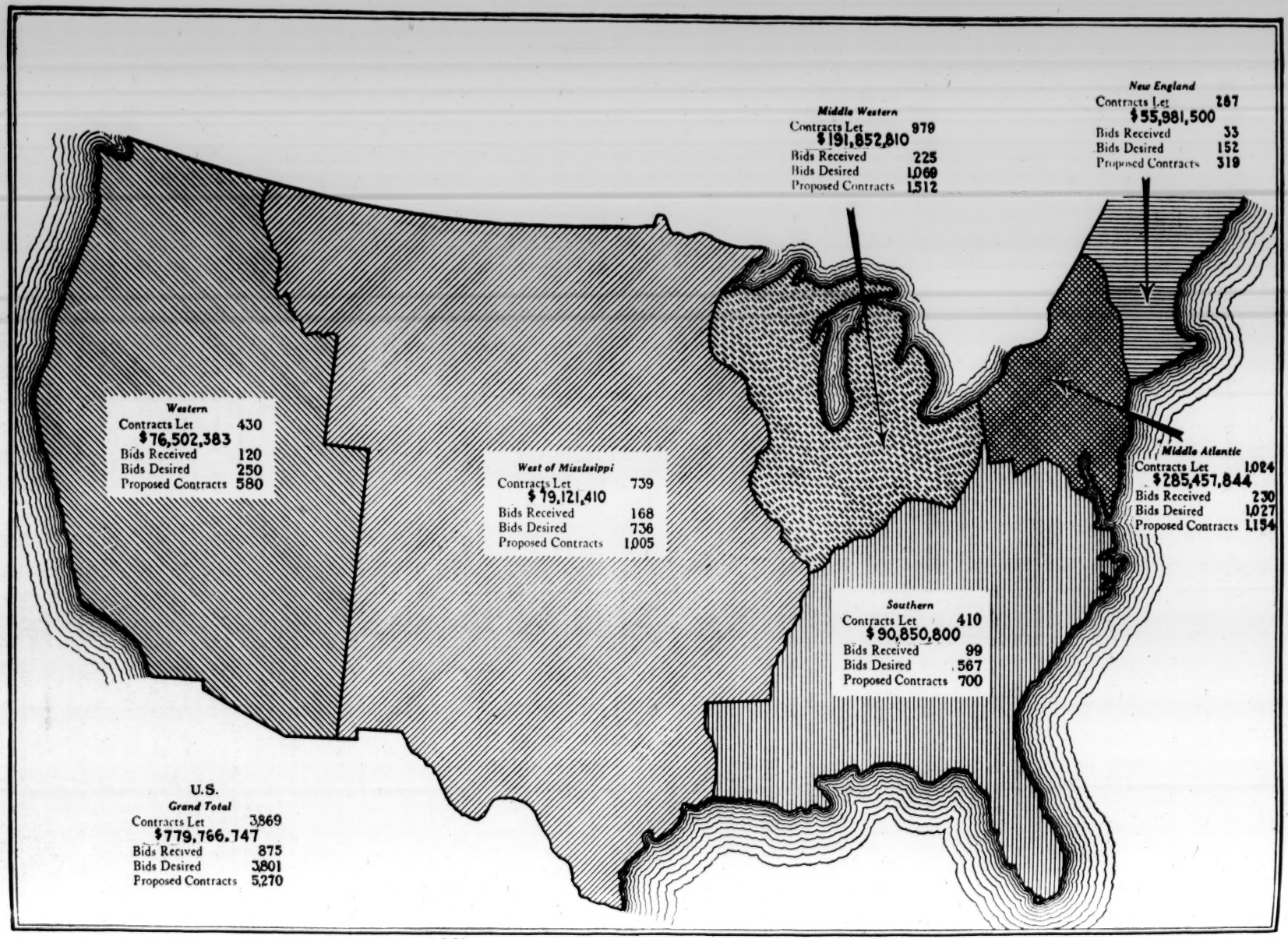
Tunnel—Moosic, Pa.—See "Waterworks."

Asphalt, etc.—Phila., Pa.—F. H. Caven, dir. pub. wks., for 13,000 ton asphalt mixtures, to Union Paving Co., 34th and Spruce Sts., $44,740; mixed concrete, to West Jersey Sand and Supply Co., Beach and Marlboro St., $8,250; 7,500 ton gravel to De Frain Sand Co., Finance Bldg., $12,208. Noted July 20.

Circuit—Warren, Pa.—Bell Telephone Co., Savings Bank Bldg., will replace present 50 pair circuit in Pennsylvania Ave., with modern 200 pair circuit, by day labor. $100,000.

Turbine and Accessories—New Orleans, La.—Sewerage and Water Bd., one 6,000 hp. turbine engine and accessories, to Westinghouse Electric Mfg. Co., Maison Blanche Bldg., $117,000. Noted May 18.

Piles—Los Angeles, Cal.—Furnishing and driving rein.-con. piles for 4 piers, to E. Cykler, Alexandria Hotel, $165,000.



CONSTRUCTION NEWS FIGURES FOR FIRST HALF OF 1922

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Aug. 1.

State Highway Work

Baltimore, Md.

Sealed proposals for building eight sections of State Highway, as follows:

Frederick County, Cont. F-52. One section of State highway along the Buckeystown Pike from end of Cont. F-31 Extd. to Furnace Branch Bridge, a distance of 1.35 miles. (Concrete.)

Howard County, Cont. Ho-23. One section of State highway from the end of Cont. 453 at Benson Branch to the Triadelphia Pike, a distance of 1.5 miles. (Concrete.)

Hartford County, Cont. H-29. One section of State highway from Whiteford toward Dublin, a distance of 1.0 miles. (Concrete.)

Charles County, Cont. Ch-23. One section of State highway from Mason Springs to Marbury, a distance of 2.6 miles. (Gravel.)

Cecil County, Cont. Ce-41. One section of State highway from Calvert toward Fair Hill, for a distance of 2.0 miles. (Concrete.)

Queen Anne's County, Cont. Q-22. One section of State highway from Sudlersville toward Millington, for a distance of 2.0 miles. (Concrete.)

Dorchester County, Cont. D-25. One section of State highway from Eldorado toward Federalsburg, for a distance of 1.0 miles. (Concrete.)

Wicomico County, Cont. Wi-21. One section of State highway from Salisbury toward Snow Hill, for a distance of 2.0 miles. (Concrete.)

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M., standard time, on the 1st day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 13th day of July, 1922.

JOHN N. MACKALL,
Chairman.

L. H. STEUART, Secretary.

Bids: Aug. 7.

Street Improvement

White Plains, N. Y.

Sealed bids or proposals for the construction of North Broadway, City of White Plains, with cement concrete and asphaltic concrete surface on a cement concrete foundation will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 a.m. (Standard Time), August 7th, 1922.

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of four dollars ($4.00).

BOARD OF SUPERVISORS.
FRED L. MERRITT, Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 9.

Road Work

Hackensack, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders for the construction of Section 3, Route No. 10, from the Borough of Little Ferry to the Borough of Ridgefield, in the County of Bergen, with an 8-in. one course reinforced concrete pavement; estimated amount of surface pavement required is 17,680 sq. yds.; and opened and read in public at Court House, Hackensack, N. J. on Wednesday, August 9th, 1922, at 1.30 P. M. (daylight savings time).

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by the County Engineer, and approved by the State Highway Commission, have been filed in the office of the said Engineer at the Court House, Hackensack, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to the Board of Chosen Freeholders of the County of Bergen and must be accompanied by a certificate from the Bonding Company and a certified check for not less than 10 per cent of the bid and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

Work to be performed under County Reimbursement Act Chapter 183 Laws of 1918, and amended by Chapter 317, Laws of 1920.

By Order of Board of Chosen Freeholders, Bergen County, N. J.

JAS. M. HARKNESS.
Clerk.

Bids: July 31.

Paving

Washington, Pa.

Sealed proposals will be received by the Town Council of the Borough of Washington, Penna., at the Council Chamber until 7:30 p.m., July 31st, 1922, for the construction of about eighteen thousand (18,000 square yards of brick pavement (brick furnished by the borough) and for the resurfacing of about five thousand (5,000) square yards with bituminous pavement.

Each bid must be accompanied by a certified check in the amount of five per cent (5 per cent) of the contract price.

Plans and specifications may be obtained at the office of the Borough Engineer, and the right is reserved to reject any or all bids.

J. F. CURRAN,
President of Council.
JOHN GRIFFITHS,
Secretary of Council.

OFFICIAL PROPOSALS

Bids: Aug. 4.

Concrete Highway and Appurtenances

Hallstead, Pa.

Sealed proposals will be received by the Council of the Borough of Hallstead, County of Susquehanna, State of Pennsylvania, on August 4th, 1922, until 8 o'clock p.m., at their office at Municipal Building, at which time and place proposals will be opened and read for the construction of concrete highway and appurtenances on Franklin Street, Pine Street, Susquehanna Avenue, and Main Street.

Proposals must be on forms provided and must be accompanied by a certified check for 5 per cent of the total amount bid.

Proposal forms, specifications, maps and other information may be obtained at the office of the Secretary of the Borough of Hallstead, Pa., or at the office of Hoadley & Giles, Civil Engineers, 415 Phelps Bldg., Binghamton, N. Y.

A deposit of ten dollars will be required for each set of plans and specifications, which will be refunded upon return of plans and specifications.

The Borough Council reserves the right to reject any or all bids.

F. C. BROWN,
President, Hallstead Borough Council.

W. J. KIRBY,
Secretary.

Bids: Aug. 17.

Street Improvement

Henderson, N. C.

Sealed proposals will be received for the materials and labor in connection with the improvements of certain streets of the City of Henderson, N. C., by the Mayor and Board of Commissioners of said city until three o'clock P.M., of August seventeenth, when they will be opened and publicly read.

The specifications cover sheet asphalt and bituminous concrete pavements, and in addition to the above, proposals will be considered upon Warrenite-Bitulithic and other special forms of pavement. Work contemplated includes grading, furnishing placing and constructing concrete curb and gutters and the installation of storm drains.

Bids are asked upon approximately 60,000 square yards of pavement. Pavement will be constructed from one or more of the above classes as may be selected by the city, and the entire work to be done will be awarded under one or more contracts as the city may elect.

Plans and specifications may be examined at the office of the City Clerk or at the office of the Engineer. Specifications will be ready for delivery on or about July 20, and prospective bidders may obtain same by addressing direct to the Engineer at Henderson, N. C., and making a deposit of $10.00, which deposit will be refunded upon the return of the specifications in good condition.

Each proposal must be accompanied by a certified check in the sum of five (5) per cent of the amount bid as evidence of good faith upon the part of the bidder.

The City reserves the right to reject any or all bids or accept any which may seem to be to the best interest of the City of Henderson.

A. A. BUNN, Mayor.
S. B. BURWELL, Clerk.
R. D. GLADDING, Engineer.

OFFICIAL PROPOSALS

Bids: Aug. 10.

Highway Route No. 6, Section No. 14

Woodbury, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Gloucester for the construction of State Highway Route No. 6, Section No. 14, in the city of Woodbury, estimated amount of reinforced cement concrete pavement is 19,373 square yards and furnishing materials necessary and laying 3,575 lineal feet of double street railway track.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920 and Chapter 61, laws of 1922.

Bids will be received at the Court House at Woodbury, N. J., on Thursday, August 10th, 1922, at 10.00 A. M., Eastern Standard Time, and immediately opened and publicly read thereafter.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of William C. Cattell, County Engineer, at Woodbury, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) dollars upon application to William C. Cattell, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addresses to the Board of Chosen Freeholders of the County of Gloucester and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of Charles N. Bell, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to William C. Cattell, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful perfcrmance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Gloucester passed at a meeting held on May 24th, 1922.

CHESTER N. STEELMAN,
Clerk.

Bid: Aug. 7.

Curbing and Paving

Leechburg, Pa.

The Council of Leechburg Borough will receive bids for grading, curbing and paving Linden Avenue and portions of First Street, Center Avenue and Floral Avenue in the Borough of Leechburg, Pa.

Approximate amount of work to be done:
8000 lin.ft. of Curbing
3000 cu.yd. of Grading
200 cu.yd. of Filling
11000 sq.yd. of Paving

Bids will be taken for reinforced concrete curbing; also for Cleveland sand stone curbing, for reinforced concrete paving; also for Trinidad asphalt paving; also for a couple of short sections of Hillside brick.

Specifications can be secured from Borough Engineer C. A. Ehrenfeld, or from John A. Hill, Borough Secretary, Leechburg, Pa.

A certified check in amount of $500.00 must accompany each bid as a guarantee, that if awarded contract, bidder will file bond, to properly execute the work. The right to reject any or all bids is reserved.

Bids must be in hands of Borough Secretary on or before 8.00 p.m., Monday, Aug. 7, 1922, at which time bids will be opened.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Street Improvement

Wadsworth, Ohio.

Notice is hereby given by direction of the Council of the Village of Wadsworth, Ohio, that sealed proposals will be received by the council of said village at the office of the Village Clerk until 12 o'clock noon on August 15, 1922, for the improvement of Highland Avenue, from Prospect Street northerly one block including intersection by construction of vitrified brick pavement on concrete base, curbs and storm sewers.

The following items relating to work and material for said improvement are from engineer's estimate:

1,840 cubic yards excavation; 2,700 square yards paving; 1,700 lineal feet curbing; 1,700 lineal feet drain; 1,000 lineal feet storm sewer.

The plans, profiles, estimates and specifications are on file in the office of the Village Clerk.

Each bid must be accompanied by a certified check for $500.00 conditioned for the proper entering into contract for construction of said improvement.

The council reserves the right to reject any and all bids.

R. W. SIMESTER,
Dated: July 7, 1922. Village Clerk.

Engineering News-Record Reaches Your Local Contractors

Its distribution among the contractors of any one state is in proportion to the number of contractors situated in that state. The Official Proposal Columns of *Engineering News-Record* offer precisely the same efficient service to municipalities, counties, and state and government departments in eyery section of the United States.

Bids: Aug. 18.

Channel Work

Bloomington, Ill.

Sealed bids will be received by the Trustees of the Bloomington and Normal Sanitary District, at 404 Unity Building, Bloomington, Illinois, up to 2 o'clock p. m., August 18, 1922, for construction of the open channel work of the District as follows:

71,300 cubic yards excavation in open channel.
76,200 square yards hand dressed spoil bank.
150 lineal feet retaining wall requiring 56 cu. yd. concrete.
75 lineal feet reinforced concrete sewer crossing under channel.
1 manhole on 33-inch sewer.
1 manhole on 48-inch sewer to be repaired.
Supports for two sewers crossing proposed channel.

Open channel has bottom widths from 8 feet to 26 feet, with side slopes 1½ to 1, average depth 7 feet.

Separate bids will be received on the dredging and spoil bank work and on the incidental work above listed.

All bids must be on forms prescribed by the Trustees and bidding blanks may be obtained from Taylor & Woltmann, 428 Unity Bldg., Bloomington, Illinois, Engineers for the District.

Plans, profiles and specifications for the work may be obtained from the Engineers.

All bids must be accompanied by a check for 10 per cent of the amount of the bid, certified by a responsible bank, payable to John W. Harber, President of Board of Trustees.

The Trustees reserve the right to reject any and all bids.

Dated Bloomington, Illinois, July 8, 1922.

JOHN W. HARBER,
FRED D. BARBER,
JOHN J. CONDON,
Trustees, Bloomington and Normal Sanitary District.

OFFICIAL PROPOSALS

Bids: Aug. 8.

State Highway Route No. 15

Bridgeton, N. J.

NOTICE IS HERBY GIVEN that sealed bids will be received by the County of Cumberland for the following: Construction of State Highway Route No. 15, Section No. 4, West Main Street, Millville, New Jersey, estimated amount of Warrenite-Bitulithic surface on a Portland cement concrete foundation is 10,992 square yards.

Work is to be performed under County Reimbursement Act, Chapter 183, Laws of 1918, and amended by Chapter 317, Laws of 1920.

Bids will be received at the Court House, at Bridgeton, Cumberland County, New Jersey, on Tuesday, August 8th, 1922, at two o'clock p.m., Standard Time.

Drawings specifications and form of contract and bond for the proposed work are on file in the office of Walter M. Sharp, County Engineer, at Bridgeton, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of Ten Dollars ($10.00) upon application to Walter M. Sharp, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelops, addressed to The Board of Chosen Freeholders of the County of Cumberland, and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of Edward P. Bacon, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to Walter M. Sharp, County Engineer.

Each bidder must accompany his bid with a certificate from a Surety Company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of The Board of Chosen Freeholders of the County of Cumberland passed at a meetng held on July 12th, 1922.

HOWARD L. TYLER.
July 21, 1922. Clerk.

Bids: Aug. 1.

Street Improvements

Saranac Lake, N. Y.

Sealed bids for the improvement of streets, namely: Park Ave., Shepard Ave., South St., and Helen St., will be received by the Village Clerk of the Village of Saranac Lake, N. Y., until 7:30 P.M. (Daylight Saving Time), Tuesday, August 1st, 1922.

Plans, details, profiles, specifications, approximate quantities, and instructions to bidders will be on file at the Village Engineer's Office after July 18th and copies may be procured from Engineer on deposit of $10.00.

The Village Board of Trustees reserves the right to reject any or all bids.

(Signed)
DAN S. FOSTER,
Village President.
SEAVER A. MILLER,
Village Clerk.
HARRY HULL, Engineer.

Bids: Aug. 6.

Mill Type Crane

Aberdeen, Wash.

Sealed proposals will be received by the Port of Grays Harbor at the office of the Commission, 206 E. Wishkah St., Aberdeen, Wash., until 10 o'clock a.m., August 6, 1922, for one 5 Ton, or 7½ Ton, 78-foot span, Mill Type Traveling Crane.

Further information on application.

PORT OF GRAYS HARBOR.
FRANK H. LAMB, President.
J. A. VANCE, Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 10.

Spring Street Viaduct

Atlanta, Ga.

Sealed proposals to be addressed to and filed with J. N. Landers, Purchasing Agent, City of Atlanta, will be received up to two p. m. Thursday, August 10, 1922, for the construction of the Spring Street Viaduct. The work will be let under two contracts to one or two bidders. Contract No. 1 will be for the manufacture and delivery of superstructure metal work; contract No. 2, for the erection of the superstructure metal work and for the construction complete of the viaduct, approaches and incidental work. The viaduct and approaches include about 1,700 lin. ft. of elevated viaduct structures in part of structural steel and in part of reinforced concrete, and about 600 lin. ft. of approaches between the retaining walls, together with regrading and repavement of certain roadways, and alterations to certain incidental structures, and attendant construction. About 1,200 tons structural steel, 10,000 cu. yds. reinforced concrete.

Each bid shall be accompanied by certified check payable to J. N. Landers, Purchasing Agent, in an amount not less than 2 per cent of the gross amount of the bid, to be forfeited as liquidated damages by any bidder who is awarded a contract and who fails promptly to execute contract and bond. Certified checks will be returned to bidders, upon execution of contract and bond or sooner upon action of the Viaduct Committee.

Contracts will be awarded to the lowest responsible and competent bidders, but the City reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of J. N. Landers, Purchasing Agent, and in the offices of Harrington, Howard & Ash, Kansas City, and of Robert & Co., Inc., Atlanta, Associated Consulting Engineers. Copies of the plans and specifications may be secured from either of these engineers' offices by depositing $35.00. These plans and specifications shall be returned and $20.00 will be refunded.

A bond satisfactory to the City of Atlanta equal to the total gross amount of the bid will be required.

J. N. LANDERS,
Purchasing Agent, City of Atlanta.
(2nd floor City Hall.)

Bids: Aug. 10.

Drainage and Ditch Improvement

Wooster, Ohio.

Notice is hereby given that sealed proposals for the construction of the JOINT WAYNE-HOLMES COUNTY DITCH IMPROVEMENT will be received up until twelve o'clock noon Eastern Standard Time on Thursday, August 10, 1922, at the office of the Secretary of the Joint Board of County Commissioners of Wayne and Holmes Counties at the Court House at Wooster, Ohio.

The work to be done consists of the draining and dredging of Killbuck Creek in Wayne and Holmes Counties, in all, the distance of One Hundred and Fifty-Six Thousand (156,000) feet.

The yardage of earth to be moved is estimated at about 1,780,000 cubic yards, consisting principally of Hydraulic dredge work. The date of completion will be eighteen months from the date of awarding of contract.

A certified check in the amount of $10,000.00, payable to the Joint Board of County Commissioners of Wayne and Holmes Counties, Ohio, must accompany each proposal. Checks of unsuccessful bidders will be returned within ten days of the awarding of the contract.

The said board reserves the right to reject any or all bids. Plans, specifications and proposals are on file at the Secretary's office at the Court House, Wooster, Ohio, or same will be mailed upon application when same is accompanied by a deposit of $20, which will be refunded if plans are returned in good condition.

By order of the Joint Board of
County Commissioners of Wayne
and Holmes Counties.
CHAS. F. SCHOPF,
Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Road Work

Wadsworth, Ohio.

Notice is hereby given by direction of the Council of the Village of Wadsworth, Ohio, that sealed proposals will be received by the Council of said village at the office of the Village Clerk until 12 o'clock noon on Aug. 15, 1922, for the improvement of North Lyman Street to Akron-Wadsworth road by construction of bituminous macadam pavement, curbs and storm sewers; also construction of water and sewer mains northerly from North Street.

The following items relating to work and material for said improvement are from engineer's estimate:

7,300 cubic yards excavation; 11,000 square yards paving; 6,000 lineal feet curbing; 8,000 lineal feet drain; 5,000 lineal feet storm sewer.

The plans, profiles, estimates and specifications are on file in the office of the Village Clerk.

Each bid must be accompanied by a certified check for $500.00 conditioned for the proper entering into contract for construction of said improvement.

The council reserves the right to reject any and all bids.

Dated: July 7, 1922.
R. W. SIMESTER,
Village Clerk.

Make Plans Accessible to Distant Bidders

Plans and specifications for inspection by distant bidders may be filed at any of *Engineering News-Record* offices (without charge). Or a sufficient supply may be deposited at such of our offices as seem desirable, subject to your usual requirements in the matter of deposits, etc. (We assume full responsibility for return of plans or deposits). Therefore, Contractors in all parts of the country can bid with equal convenience on contracts advertised in *Engineering News-Record*.

Bids: Aug. 4.

Road Reconstruction

Mount Holly, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders for the reconstruction of the Medford-Mount Holly Road No. 27 in the Townships of Medford and Lumberton in the County of Burlington with a sheet asphalt surface upon a macadam foundation; estimated amount of surface pavement required is 67,000 square yards; and opened and read in public at the Collector's Office, Mount Holly, N. J., on the 4th day of August, at 10:30 a.m. Eastern Standard Time.

Drawings and specifications and forms of bid contract and bond for the proposed work, prepared by B. H. Wills, County Engineer, has been filed in the office of the said engineer at Kelsey & Killie Building, Mount Holly, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue print of the drawings by the engineer on proper notice and payment of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to Alfonza Adams, Clerk, Mount Holly, N. J., and must be accompanied by a certificate from a surety company and a certified check for not less than 10 per cent of the amount of bid and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished upon application to engineer.

The Board reserves the right to reject any or all bids.

By order of the Board of Chosen Freeholders of the County of Burlington, N. J.
ALFONZA ADAMS, Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 24.

Pumping and Filtration Works Contract No. 24, Filtration Division

Sacramento, Cal.

Sealed proposals for constructing the rapid sand filtration plant and appurtenances, being the Filtration Plant portion of the Pumping and Filtration Works of the City of Sacramento, endorsed, "Proposals for Constructing the Rapid Sand Filtration Plant and Appurtenances, Filtration Division, City of Sacramento, Cal., Contract No. 24," addressed to the City Clerk, will be received at the office of the City Clerk, City Hall, Sacramento, Cal., until 9 p.m., Pacific Standard Time, on the 24th day of August, 1922, and will be publicly opened and read in the Council Chamber, City Hall, Sacramento, on the 24th day of August, 1922, after 9 p.m.

The Rapid Sand Filtration Plant and Appurtenances comprises the construction, complete, of sedimentation and coagulation basins having an aggregate capacity of approximately 10,500,000 gallons; eight rapid sand filters of concrete, having a nominal capacity of 32 million gallons per day; a super-structure over the operating gallery of the filters; a head house for administration purposes in which there is also a 200,000 gallon elevated steel water tank for filter washing purposes; a concrete sump having a capacity of approximately 200,000 gallons; a coagulant building and outside piping, excavation and embankment, and roadways and paths.

The following roughly approximate quantities are involved in the work:

14,500 cu.yd. of concrete.
477 concrete piles.
870 tons of reinforcing material.
17,500 cu.yd. of excavation.
6,000 cu.yd. of rolled fill.
300,000 cu.yd. of general fill or embankment.

In addition to these features, a considerable amount of building construction and mechanical equipment, including cast iron pipe and fittings, gate valves, sluice gates, hydraulic and electrical controlling devices, guages, conveyors, pulverizers, etc., are involved.

The above statement of quantities is presented merely for the purpose of giving a general impression of the nature and magnitude of the work to be done, and is not to be considered as exact or complete.

Each proposal must be accompanied by a certified check made payable to the order of the City Controller, City of Sacramento, Cal., in the sum of six (6) per cent of the aggregate of the proposal.

A faithful performance bond, amounting to ten (10) per cent of the contract price, and a material and labor bond amounting to fifty (50) per cent of the contract price will be required of the successful bidder, in accordance with the provisions of the City Charter and ordinances and of the State Laws.

Prior to the acceptance of the completed work a defective material and workmanship bond amounting to five (5) per cent of the amount of the contract must be furnished.

The complete contract documents may be examined at the office of the City Clerk, or at the office of the Filtration Division, or printed copies thereof, including reduced scale drawings only, will be furnished to intending bidders upon request and upon the payment of a deposit of twenty-five dollars ($25). All deposits for pamphlets will be refunded upon their return, in good condition, or if they are used in filing a proposal. Bidders desiring full scale blueprints of the Contract Drawings may obtain them by purchase at the price of twenty-five ($0.25) cents each.

No informal or irregular proposals or propositions for doing the work will be considered by the City at this time. It is the desire of the City Council to let the Contract for the work as a whole. However, the City reserves the right to receive and accept separate proposals for Items Nos. 2, 3, 4, 7 and 8, these items providing for the furnishing and installing of equipment for the Sedimentation basins, the head house, and filters and the coagulant building and for general fill and should the City receive and accept such separate proposals for these items, the successful general contractor shall be prepared to enter into a contract omitting these items. The City reserves the right to reject any or all proposals and to increase or decrease the amount of any class or portion of the work.

H. G. DENTON, City Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 16.

Water Works System

Sayreville, N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Sayreville, N. J., at the Borough Council Chambers, Borough Hall, in the Borough of Sayreville, on the 16th day of August, 1922, at the hour of 8 o'clock p.m., Daylight Saving Time and 7 o'clock p.m. Standard Time, for the construction of a Water Works System in the Borough of Sayreville. The work, will, in general, consist of:

Laying about 13,402 lin.ft. of 4 inch Cast Iron Pipe,
Laying about 30,715 lin.ft. of 6 inch Cast Iron Pipe,
Laying about 10,215 lin.ft. of 8 inch Cast Iron Pipe,
Laying about 14,780 lin.ft. of 10 inch Cast Iron Pipe
together with other and appertaining construction.

All of said work to be done in accordance with the plans and specifications prepared by Waldo S. Coulter, Consulting Engineer, 114 Liberty Street, New York, N. Y., which said plans and specifications were adopted by the Borough Council of the Borough of Sayreville at the meeting held Wednesday, March 15th, 1922, and which said plans and specifications are now on file in the office of the Borough Clerk, Borough Hall, Sayreville, N. J., where they may be seen by bidders or a set of the said plans and specifications can be secured from Waldo S. Coulter, Consulting Engineer, by depositing ten dollars ($10.00), one half of which will be refunded upon the return of the plans and specifications in good condition within seven (7) days after the award of the contract. All bids must be on the form of proposal to be obtained from the Consulting Engineer.

Each bidder must accompany his bid by a certified check of five thousand dollars ($5,000), payable unconditionally to the Treasurer of the Borough of Sayreville, which said check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award enter into and execute a contract for the faithful performance of the work to be done under said contract, and said bid must be in a sealed envelope and marked "Proposal for a Water Works System." The successful bidder will also be required to furnish a Surety Company bond to the Borough of Sayreville in the amount of Fifty Thousand Dollars ($50,000), for the faithful performance of the work to be done under said contract, said bond to be approved by the Borough Attorney.

In case of failure to execute the contract and furnish the required Surety Company bond within ten (10) days after due notice that the contract has been awarded to him, the successful bidder shall forfeit his deposit to the Borough of Sayreville as liquidated damages.

The right to reject any or all bids is reserved by the Mayor and Borough Council.

All of said work must be completed on or before December 1, 1923.

EDWARD E. CLARK,
Mayor.

Attest:
FRANK P. KOLB,
Borough Clerk.
Approved:
THOMAS H. HAGERTY,
Borough Attorney.

Bids: Aug. 12.

Drainage Work

Kokomo, Ind.

Bids will be received by me for the construction of an improvement of Kokomo Creek by dredging upon petition of George W. Charles and others at my office in Kokomo, Indiana, on August 12, 1922, work to be completed by January 1, 1924.

ELLSWORTH HUNT,
County Surveyor.
Howard County, Indiana.
B. C. MOON, Kokomo, Indiana,
Attorney for Petitioners.

OFFICIAL PROPOSALS

Bids: Aug. 10.

Covered Reservoir

Poughkeepsie, N. Y.

Sealed proposals will be received by the Board of Public Works at its offices in Eastman Park Mansion on or before 4 p.m. (Daylight Saving Time), Thursday, August 10th, 1922, for the construction of a Pure Water Reservoir.

Plans, specifications, form of proposal, bond and contract may be obtained at the office of the Superintendent of Public Works, Poughkeepsie, N. Y., and at the office of Hazen, Whipple and Fuller, Consulting Engineers, 30 East 42nd Street, New York City, upon the deposit of Twenty-five ($25.00) Dollars, which amount will be refunded upon the return of the plans and specifications in good condition.

Quantities of work to be done are approximately:

Item 1.	1,490	cubic yards of stripping.
Item 2.	24,500	cubic yards of general excavation.
Item 3.	125	cubic yards of trench excavation.
Item 4.	16,350	cubic yards of rolled embankment.
Item 5.	4,600	cubic yards of general fill.
Item 6.	81	cubic yards of concrete for filling.
Item 7.	1,217	cubic yards of piers and vaulting.
Item 8.	958	cubic yards of floors.
Item 9.	1,120	cubic yards of walls.
Item 10.	85,000	pounds of reinforcing steel.
Item 11.		Entrance building. Lump sum.
Item 12.		Placing cast iron pipes and gates. Lump sum.

The proposal shall be accompanied by a certified check drawn upon an incorporated State or National Bank or Trust Company in good credit, within this State, payable to the order of the City of Poughkeepsie for five per cent of the amount of the bid. The successful bidder will be required to give a satisfactory bond for the faithful performance of the agreement in amount equal to fifty per cent of the value of the contract.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.
THOMAS F. LAWLOR, Supt.
HAZEN, WHIPPLE & FULLER,
Consulting Engineers,
30 East 42nd Street,
New York City.

Bids: August 17.

Intake Pier, Screens, Mains, Storage Tanks

Wheeling, W. Va.

Sealed Proposals for the construction of an intake pier, 48-inch intake line, traveling screens with building, 17,000 feet of 30-inch steel force mains and 3,000 feet of 36-inch steel reservoir main, and 5 one-million-gallon steel storage tanks will be received by the City Clerk of Wheeling, W. Va., until twelve o'clock noon, Eastern Standard Time, on August 17th, 1922, and will then be opened and read publicly.

All bids shall be made upon the official proposal blanks attached to the Instructions to Bidders, Specifications, and Form of Contract and Bond, which may be seen at the office of the City Clerk, Wheeling, W. Va., or may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Union Bank Building, Pittsburgh, Pennsylvania, or W. M. Evans, City Clerk, upon deposit of Twenty-five Dollars ($25.00), which amount will be refunded to bidders upon return of plans and specifications in good order.

Each proposal shall be accompanied by a certified check made payable to the order of W. M. Evans, City Clerk, of not less than 5% of the total amount of the bid. This check is to be conditions that if bid is accepted, a contract will be entered into and performance of same secured within ten (10) days after notification of the acceptance of the bid. In case bid is rejected or contract entered into, check will be returned. Successful bidders will be required to furnish a corporate surety bond in an acceptable Surety Company, in the full amount of the contract.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.
ATTEST:
W. M. EVANS,
City Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 10.

State Road Work

Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the construction of the following:

Bituminous Concrete Shoulders two feet wide on each side of present concrete pavement, Route No. 4, Job 445, Broadway from Main Street to Scott Avenue in South Amboy, in the County of Middlesex. Estimated 1,950 square yards of bituminous concrete FABC-1 (Topeka) including scarifying, re-shaping, etc., where necessary.

Bids will be received by the State Highway Commission at the offices of the Commission, Broad Street Bank Bldg., Trenton, N. J., on Thursday, August 10th, 1922, at 11:00 A.M. STANDARD TIME and opened and read immediately thereafter.

Specifications, form of bid, special addressed envelopes and conditions under which bids will be accepted for the above are on file in the office of Mr. A. W. Muir, Superintendent of Maintenance, 517 Broad Street Bank Building, Trenton, N. J., and may be obtained upon request. Bids must be made upon the proposal forms furnished, in the manner designated therein, and as required by the specifications, same to be enclosed in sealed special addressed envelopes which will be furnished each bidder with the bid blank, bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Bids not submitted on the standard proposal form or enclosed in other than the special envelope will be considered informal and will be rejected.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

The State Highway Commission reserves the right to reject any or all bids. By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: **Aug. 1.** *(Change in Date)*

Sewers

Wheeling, W. Va.

Sealed proposals will be received by the city of Wheeling, W. Va., until 5 p.m. of the 1st day of August, 1922, for the furnishing of all material including manholes, catch basins and labor required in the construction of new sewers on the following streets:

MARKET STREET (14TH TO CREEK)—1,200 lin.ft. 42-in. reinforced concrete culvert pipe. Average cut 17 ft.

MARKET STREET (ALLEY 9 TO 14TH ST.)—275 lin.ft. 15-in. D. S. vitrified pipe. Average cut 12 ft.

MAIN STREET—1,200 lin.ft. 42-in. reinforced concrete culvert pipe. Average cut 18 ft.

12TH STREET (MAIN ST. TO RIVER)—475 lin.ft. 24-in. vitrified sewer. Average cut 12 ft.

SOUTH MARKET STREET (SOUTH OF 27TH ST.)—225 lin.ft. 36-in. reinforced concrete culvert pipe. Laid in open drain.

Contract is to be let for total amount of work and not by separate streets.

Plans and specifications and proposal forms on file in office of the City Engineer, City Building.

Individual copies of the plans and specifications will be prepared by request, for a nominal fee of $5.00.

All bids must be accompanied by a certified check of 5 per cent of the amount bid, and addressed to the City Council, care of W. M. Evans, City Clerk.

The city reserves the right to reject any or all bids.

C. H. DOWLER,
City Manager.
H. A. CONRAD,
City Engineer.

OFFICIAL PROPOSALS

Bids: Aug. 16.

Highway Bridge

Ballston, Spa, N. Y.

Pursuant to the provisions of section 262A of the Highway Law of the State of New York, being chapter 30 of the laws of 1909, as amended, sealed proposals will be received by the undersigned at the rooms of said Board in the County Courthouse at Ballston Spa, N. Y., on Wednesday the 16th day of August, 1922, at 2 P. M. advanced standard time, which is 1 o'clock P. M. Eastern standard time, for the construction of a steel highway bridge over the narrows at the north end of Saratoga Lake, Saratoga County, New York, to be known as the Saratoga Lake Bridge.

The bridge consists of three two-hundred-foot steel truss spans, with a concrete deck. The piers are concrete, resting on timber piles. The principal items are as follows:

Concrete in Substructure	760 cu.yds.
Timber Piles	5,000 lin.ft.
Structural Metal	940,000 lbs.
Concrete in Deck	390 cu.yds.

Maps, plans and specifications may be seen, and proposal forms obtained, on and after August 1st, 1922, at the office of the Saratoga County Clerk, Ballston Spa, N. Y., and the office of the County Superintendent of Highways, room 11 Starbuck Building 412½ Broadway, Saratoga Springs, N. Y.; and in the office of the Consulting Engineer, J. A. L. Waddell, 35 Nassau Street, New York City. Complete plans and specifications can be obtained upon deposit of Five Dollars ($5.00), which deposit will be refunded upon return of the plans and specifications in good condition within one week after the date of the letting.

The especial attention of bidders is called to the "Information for Contractors", and, "Instructions to Bidders" in the Specifications.

Each proposal must be accompanied by cash, draft, or certified check, payable to the order of the County Treasurer of Saratoga County, for an amount equal to at least 3% of the amount of the proposal. The retention and disposal of such cash, draft or check by the Board of Supervisors shall conform with subdivision 2, section 130 of the Highway Law as amended by chapter 623, laws of 1919, so far as the same may be applicable.

The successful bidder will be required to execute a bond in an amount equal to the contract price, with sufficient sureties, to be approved by the chairman of the Board of Supervisors, and to execute the contract within 7 days after the award thereof.

The right is reserved to reject any or all bids.

J. RICHARD WHITNEY
Clerk of the Board of Supervisors,
Ballston Spa, New York.

Bids: Aug. 15.

Miami River Bridge

Miami, Florida.

Sealed proposals, to be filed with the City Manager, will be received by the City of Miami, Florida, up to nine o'clock a.m., August 15, 1922, at the regular meeting of the Commission, for the construction of a bridge over the Miami River at Southwest Second Avenue. The bridge is a double leaf steel bascule span with concrete piers and embankment approaches; clear span 115 ft., total length of improvement about 500 ft.; one 30-ft. roadway, two 6-ft. walks. Approximate structural metal and machinery 170 tons; concrete 2,700 cubic yards; reinforcing steel 26 tons.

The work will be let to one contractor on a unit price contract. With each bid there shall be a certified check for not less than ten per cent of the gross bid, made payable to the City of Miami, to be forfeited as liquidated damages by any bidder who is awarded the contract, who fails to promptly execute the contract and bond. Checks of unsuccessful bidders will be returned upon execution of contract, or sooner, upon action of the Commission of the City of Miami. The contract will be awarded to the lowest responsible bidder, but the City Manager shall have the power to reject all bids and advertise again.

Plans and specifications may be examined in the office of Chas. W. Murray, Director of Public Service and Welfare, Miami, Florida, and in the office of Harrington, Howard and Ash, Consulting Engineers, Kansas City, Missouri. Copies may be secured from the Consulting Engineers by depositing $25.00. Such copies shall be returned and a refund of $15.00 made.

F. H. WHARTON,
City Manager.

OFFICIAL PROPOSALS

Bids: July 31.

Concrete Paving

Eastwood, N. Y.

Sealed bids will be received by the Board of Trustees of the Incorporated Village of Eastwood, N. Y., at the Village Hall, South Midler Av., until 8 p.m. July 31, 1922 for the construction of a concrete pavement with concrete curbs, on certain streets of the Village of Eastwood. Also an 8-inch Vitrified Pipe Sanitary Sewer, in Lamson St., an 8-inch Vitrified Pipe Sanitary sewer in Homecraft Road, an 8-inch Vitrified Pipe, Sanitary sewer in Glencove Road, with the necessary Man Holes and connections according to Plans and Specifications prepared by George E. Higgins, Engineer.

Plans and specifications may be seen at the office of the Engineer, 317 Wieting Block, Syracuse, N. Y. A certified check for 5% of the amount of the proposal made payable to Elmer M. Koon, Clerk.

The Board of Trustees reserve the right to reject any or all bids and to waive any defect or any informality in any bids should it be deemed to the best interests of the Village so to do.

By order of the Board of Trustees.

P. J. LOUGHREY,
President.
ELMER M. KOON,
Clerk.

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Bids: Aug. 15.

Inlet Construction

Ft. Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11.00 A.M., on Tuesday, August 15, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Fla.

Such work shall be let in two contracts, being as follows:

(a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5,000 cubic yards more or less of rock;

(b) The furnishing and placing of 6,200 cubic yards more or less of riprap and jetty hearting and of 2,500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned. Copy of plans and specifications may be secured from the Clerk upon payment of $1.00 to cover cost of printing the same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that the bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid.

Address all bids to the Board of County Commissioners, in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board.

H. G. WHEELER,
Chairman.

Attest:—
Frank A. Bryan, Clerk.
Geo. B. Hills Company, Engineers,
Jacksonville, Florida.
Dated July 10, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Road and Bridges

Charleston, W. Va.

Sealed Proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia, until 10 o'clock a.m., on the 15th day of August, 1922, and at that time and place publicly opened and read for the construction of the following bridges and section of state road.

ROAD

Project 3126—Brooke County—0.2 mile grading and paving with Water Bound Macadam. Certified check for $700.00.

BRIDGES

Witcher Bridge No. 772, Project 116, Kanawha County, over Witchers Creek. 65 ft. steel span superstructure. Certified check for $500.00.

Cedar Grove Bridge No. 773, Project 3179 Kanawha County, over Kelly's Creek, 85 ft. steel span superstructure, concrete substructure. Separate proposals will be received for superstructure, certified check for $500.00 and substructure certified check for $500.00.

Hugheston Bridge No. 783, Project 3135-B Kanawha County, over Hughes Creek. 80 ft. steel span superstructure only, certified check for $500.00.

Hartland Bridge No. 805, Clay County, over Elk River. Concrete substructure only. Certified check for $1,100.00.

Bartow Bridge No. 829, Project 3185, Pocahontas County, over East Fork of Greenbrier River. Concrete arch, 2-56 ft. spans. Certified check for $500.00.

Poca Bridge No. 619, Putnam County, over Pocatalico River. 180 ft. span, steel truss superstructure, Ashlar masonry substructure. Separate proposals will be received for substructure, certified check for $1,400.00 and superstructure, certified check for $600.00.

East Keystone Bridge No. 727, Project 3096, McDowell County, over Elkhorn Creek. 65 ft. span steel with 5 ft. sidewalk, Ashlar masonry substructure. Substructure and superstructure to be let in one contract. Certified check for $500.00.

Clothier Bridge No. 810, Project 3059, Logan County, over Spruce Fork. 130 ft. steel span superstructure, Ashlar masonry substructure. Substructure to be let on separate contract. Certified check for $500.00.

Sharpless Bridge No. 826, Project 3059, Logan County, over Spruce Fork. 130 ft. steel span superstructure, Ashlar masonry substructure. Substructure to be let on separate contract. Certified check for $500.00.

Note: Superstructures for Bridges No. 810 and No. 826 to be let in one contract. Certified check $800.00.

Seng Camp Bridge No. 830, Project 3059, Logan County, over Seng Camp Creek. Concrete thru girder, 45 ft. span. Ashlar masonry substructure. Certified check for $500.00.

Allen Creek Bridge No. 730, Project 3062, Wyoming County, over Guyandotte River. Concrete arch, 2-75 ft. spans. Certified check for $1,000.00.

Cross Creek Bridge No. 819, Project 3126, Brooke County, over Cross Creek, concrete arch, 90 ft. span. Certified check for $1,200.00.

Granny Creek Bridge No. 807, Project 3110, Braxton County, over Granny Creek. Concrete deck girder, 50 ft. span, concrete substructure, pile foundation. Certified check for $750.00.

Junction Bridge No. 802, Project 3011-B, Hampshire County, over Mill Creek. Concrete slab, 6-20 ft. spans, concrete substructure. Certified check for $500.00.

Reynolds' Gap Bridge No. 808, Project 3013, Hardy County, over Mud Lick Run. Concrete thru girder, 2-40 ft. spans, concrete substructure. Certified check for $500.00.

Judy Bridge No. 809, Project 3014, Pendleton County, over N. Mill Creek. Concrete thru girder, 2-40 ft. spans, concrete substructure. Certified check for $500.00.

Reeds Creek Bridge No. 828, Project 3105, Pendleton County, over Reeds Creek. Concrete slab, 2-22 ft. spans, concrete substructure. Certified check for $500.00.

Proposals will be received only upon State Standard Forms in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates may be obtained from the office of the State Road Commission at Charleston, West Virginia.

Each proposal must be accompanied by a certified check in the amount noted for each proposal.

The right is reserved to reject any and all proposals.

STATE ROAD COMMISSION
E. B. CARSKADON, Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 16.

Sewerage System

Sayreville, N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Sayreville, N. J., at the Borough Council Chambers, Borough Hall in the Borough of Sayreville on the 16th day of August, 1922 at the hour of 8 o'clock P. M., Daylight Saving Time and 7 o'clock P. M., Standard Time, for the construction of a system of sewers and appurtenances in the Borough of Sayreville. The work will in general consist of about

49,700 lin.ft. of 8 Inch Sewers
7,900 lin.ft. of 10 Inch Sewers
1,736 lin.ft. of 8 Inch c.i. outfall sewer on piles
3,700 lin.ft. of 6 Inch c.i. force main
1,470 lin.ft. of 10 Inch force main

together with sewage pumping stations and various appurtenances.

All of said work to be done in accordance with the plans, profiles and specifications prepared by Waldo S. Coulter, Consulting Engineer, 114 Liberty Street, New York, N. Y., which said plans, profiles and specifications were adopted by the Borough Council of the Borough of Sayreville at the meeting held Wednesday, March 15, 1922, and which said plans, profiles and specifications are now on file in the office of the Borough Clerk, Borough Hall, Sayreville, N. J., where they may be seen by bidders or a set of the said plans, profiles and specifications can be secured from Waldo S. Coulter, Consulting Engineer, by depositing fifteen dollars ($15.00) one-half of which will be refunded upon the return of the plans, profiles and specifications in good condition within seven (7) days after the award of the contract. All bids must be on the form of proposal to be obtained from the Consulting Engineer.

Each bidder must accompany his bid by a certified check of five thousand dollars ($5,000) payable unconditionally to the Treasurer of the Borough of Sayreville, which said check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award enter into and execute a contract for the faithful performance of the work to be done under said contract, and said bid must be in a sealed envelope and marked "Proposal for a Sewerage System." The successful bidder will also be required to furnish a Surety Company bond to the Borough of Sayreville in the amount of Fifty thousand dollars ($50,000) for the faithful performance of the work to be done under said contract, said bond to be approved by the Borough Attorney.

In case of failure to execute the contract and furnish the required Surety Company bond within ten (10) days after due notice that the contract has been awarded to him, the successful bidder shall forfeit his deposit to the Borough of Sayreville as liquidated damages.

The right to reject any or all bids is reserved by the Mayor and Borough Council.

All of said work must be completed on or before December 1, 1923.

EDWARD E. CLARK,
Mayor.

Attest:
FRANK P. KOLB,
Borough Clerk.
Approved:
THOMAS H. HAGERTY,
Borough Attorney.

Bids: Aug. 7.

Water Works Improvements

Altamont, Ill.

The City of Altamont, Illinois, will open bids August seventh, 1922, for material and labor for water works improvements as follows:

One Mile of 6" low head wood stave pipe.
One Mile of 2,300 volt, 3 phase Transmission line, poles on hand, to be furnished by city.
Two motor driven centrifugal pumps and connections.
One concrete storage reservoir, and one concrete pump pit and sump.

Plans for the above can be seen at the office of H. E. Will, Commissioner of Public Property, Altamont, Illinois, and Fuller and Beard, Engineers, Railway Exchange Bldg., St. Louis, Mo. Certified check for five per cent of bid must accompany all bids.

OFFICIAL PROPOSALS

Bids: Aug. 14.

Drainage Work

Benton, Mo.

Sealed proposals for the construction of about two hundred sixty-nine thousand three hundred cubic yards of earth excavation from the existing ditch and the new ditches to be dug in Drainage District No. 15 of Scott County, Missouri, will be received by the County Court of Scott County, Missouri, at the Court House of said County at Benton, Missouri, until one o'clock (1:00) P.M., August 14, 1922. This work consists of new work and clean-out work with very little clearing, and through an improved community, with bottom width of ditch ranging from fourteen to twenty feet. Bidders will be required to state specifically:

(1) Type and manufacture of equipment to be installed.
(2) Whether new or old equipment will be installed.
(3) Capacity of dipper, bucket and cram.
(4) Length of boom.

This work is suitable for drag line or floating dredge.

The right is reserved to reject any and all bids and to waive informalities in the notices and bids when the bids are received.

No proposals will be considered unless accompanied by certified check for $1,000.00 or a proposal bond. The bidder, or bidders, to whom awards are made will be required to enter into written contracts with the District in the form approved by the District, with good and approved security for the full amount of the contract, using the form of bond approved by the District, within fifteen days after notified of his or its proposal.

Payment for the work will be made in cash.

All requests for information should be addressed to C. E. Swank, Engineer, Charleston, Missouri. Plans and specifications of the work may be seen in the office of the County Clerk at Benton, Missouri, and copies of same may be obtained from the District Engineer for a deposit of $10.00.

(Signed)

GEO. W. PEARMAN,
County Clerk of Scott County,
Missouri, Benton, Missouri.

RAY B. LUCAS, Attorney,
Benton, Mo.
C. E. SWANK, Engineer,
Charleston, Mo.

Bids: Aug. 7.

Remodelling Water Treatment Plant

Falls Creek, Pa.

Will be received by the Borough of Falls Creek, Jefferson County, Pennsylvania, at the Council Chamber, until 7 p. m. on the 7th day of August, 1922, for the construction work and other incidental work to the remodelling of the Borough Water Treatment Plant.

Plans and specifications can be seen and proposal sheets obtained from the secretary of the borough or at the office of Banks & Craig, engineers, Telegraph Building, Harrisburg, Pennsylvania. The estimated cost of the work is $7,000.00.

A set of plans and sepcifications can be obtained by placing a deposit drawn to the Borough Treasury in the amount of $5.00; $3.00 of which will be returned if the plans are returned in good condition and $2.00 of which will be returned if the specifications are returned in good condition, within thirty days (30) after the award of the contract.

Each bid must be accompanied by a certified check, payable to the order of the Borough of Falls Creek, in the amount of $100.00 as a guarantee that the bidder will enter into contract with the Borough of Falls Creek within ten days from the award of the bid.

The Borough Council reserves the right to reject any and all bids.

A L LUKEHART,
President of Council
C. E. SLAYTON,
Secretary of Council

OFFICIAL PROPOSALS

Bids: Aug. 10.

Asphaltic Concrete Fine Aggregate Mix

Burlington, Vt.

Sealed proposals will be received by the City of Burlington on Thursday, August 10th, at one o'clock p.m. *Standard time*, at the City Hall, Burlington, Vermont, for the improvement of South Union Street and Shelburne Road. The work will consist of approximately 15,800 square yards of asphaltic concrete on macadam with 570 cubic yards concrete foundation in car track area. Or an alternate consisting of 14,300 square yards of asphaltic concrete on macadam with 340 cubic yards concrete pavement and 450 cubic yards concrete foundation.

All bids must be upon blanks provided in the proposal furnished to bidders.

Bids must be accompanied by a certified check for three per cent (3%), of the amount of the bid. Plans and specifications will be on file at the City Clerk's office, City Hall, Burlington, Vermont, and at the office of the Engineer, H. Eltinge Breed, Room 600, 507 Fifth Avenue, New York City.

Copies of the plans and specifications may be obtained for three dollars ($3.00) per set. No refund for blanks returned. Bidding blanks will be furnished free.

The right is reserved to reject any or all bids.

EDWARD CORLEY,
City Clerk.

Bids: Sept. 16.

Tenders for Plant

Melbourne, Australia.

Tenders are hereby invited for the supply, delivery, etc., of the following for the Morwell Power Scheme.

Copies of Tender Form and Specification will be available upon application to: Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, First National Bank Building, CHICAGO, and Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, 734 Customs House, NEW YORK CITY.

SPECIFICATION NO. 261—STRAIN & PIN TYPE INSULATORS

CHARGE: £2:2:0 for the first three copies of Tender Form, Conditions of Contract, Specification and Drawing complete. These charges will be returned on receipt of a bona fide tender. A fourth copy and any further copies will be supplied for the sum of 10/6 each.

PRELIMINARY DEPOSIT: A preliminary deposit of £100:0:0 is to lodged with Tender.

The Specification may be inspected at the above mentioned Offices, and also at the office of: The Commissioner for Australia in U. S. A., Room 3012, 61 Broadway, NEW YORK.

The Commission does not bind itself to accept the lowest or any tender.

Tenders on prescribed form, properly endorsed and addressed, must be delivered to the undersigned in Melbourne not later than Noon, 16th September, 1922.

R. LIDDELOW, Secretary.
State Electricity Commission of Victoria,
Melbourne,
Victoria, Australia.

Bids: Aug. 10.

Boring Test Wells

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans at their office, Suite 200, New Court Building, until 3 P.M., August 10th, 1922, and then publicly opened for boring the following test wells:

One at Toulouse and Dumaine Sts., 150 ft. deep
One at Foot of Barracks Street, 200 ft. deep
One at Foot of Port Street, 150 ft. deep

A deposit of $250.00 in cash or certified check is required with each proposal.

A bond to the amount of 50 per cent of the sum bid in each proposal is required with notarial contract.

Specifications and proposal forms are on file in the office of the Supervisor of Purchases at No. 1 Canal St., New Orleans, Louisiana, and will be furnished to prospective bidders upon application.

The right is reserved to reject any and all bids and to waive informalities.

J. H. WALSH,
General Manager.

OFFICIAL PROPOSALS

Bids: Aug. 9.

Reconstruction: Sec. 6, Route 14

Atlantic City, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of Atlantic County, N. J., at 12 o'clock noon on August 9th, 1922, (Daylight Saving Time), during a regular meeting of the Board at its meeting room in the Guarantee Trust Building, Atlantic City, N. J., for the reconstruction of section No. 6 of Route No. 14 in Hamilton Township, County of Atlantic, and State of New Jersey, with a Warrenite-Bitulithic pavement on a six inch (6 in.) 1-3-5 concrete base. The estimated amount of pavement and of base is 8,123.51 square yards together with excavation, extra embankment, gravel shoulders, drainage provisions and various other details required in the work. The aforesaid bids will be opened and read in public at the time and place stated for receiving them.

Plans, specifications, and forms of bid, certificate of surety, contract and bond, as prepared by A. H. Nelson, County Engineer and approved by the State Highway Commission, have been filed at the office of the County Engineer at 636 Guarantee Trust Building, Atlantic City, N. J., and at the office of the State Highway Commission in Broad Street Bank Building, Trenton, N. J., at which places they may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of said plans and specifications by the County Engineer on consideration of a deposit of $10 (Ten Dollars), which deposit will be refunded if the plans and specifications are returned to him in good condition by noon of August 9th, 1922. Each bid must be made on the standard proposal form, in the manner designated therein and required by the specifications, must be enclosed in a sealed envelope bearing on the outside the name and address of the bidder and the name of the road and the envelope must be addressed to the Board of Chosen Freeholders, Atlantic County, N. J. Each bid must be accompanied by a certificate of surety and by a certified check in an amount not less than Ten (10%) per cent of the bid and must be delivered at the place and on the hour above stated for receiving bids. A contract will be awarded, if awarded at all, subject to the sale and delivery of bonds which will be issued for the purpose of paying for the proposed work.

By order of the Board of Chosen Freeholders of Atlantic County.

F. W. WILLETTS,
Clerk.

Bids: Aug. 8.

Concrete Road

Trenton, N. J.

The Board of Freeholders of Mercer County will receive bids on Tuesday, Aug. 8th, 1922, at 2:30 o'clock daylight saving time, in the afternoon, at their regular place of meeting, Court House, Trenton, New Jersey, for constructing 8 inch reinforced concrete road 2⅘ miles in length parallel to D. & R. Canal Feeder from Scudder's Falls to Washington's Crossing.

Work will be carried out under a bonus and penalty contract.

The estimated quantities of the principal items of construction are as follows:

Unclassified Excavation, 8,000 cu.yds.
Concrete Pavement, 29,000 sq.yds.
Macadam Shoulders, 8,400 sq.yds.
Cable Guard Rail, 10,525 lin.ft., together with drainage structures, walls, sodding, etc.

Prospective bidders are referred to plans and specifications covering the above work prepared by Harry F. Harris, Mercer County Engineer, which plans and specifications are on file in his office at the Court House, Trenton, New Jersey. Copies of said plans and specifications may be obtained upon deposit of the sum of $10.00, which will be refunded if the plans and specifications are returned in good condition within 48 hours after the bids are opened.

Each bid must be accompanied by a certified check in the amount of five thousand dollars ($5,000.00) payable to Edgar G. Weart, County Treasurer, also by a proposition from a surety company fulfilling the requirements of Section 507, Chapter 185, P. L., 1918.

The right is reserved to reject any or all bids and to waive any immaterial defect or informality in any bid should it be in the interest of the County to do so.

WM. M. PETTIT,
Director of Department of New Roads.

OFFICIAL PROPOSALS

Bids: Aug. 14.

Sanitary Sewerage System

Pensauken, N. J.

Sealed proposals will be received by the Township Committee of the township of Pensauken, N. J., at the Township Hall, Cove Road and Center Street, on the 14th day of August, 1922, until 8:00 o'clock p.m. (Daylight saving time) for the construction of a sanitary sewerage system consisting of approximately 20 miles of 5-inch to 15-inch T. C. pipe sewer, 262 manholes, 17 flush tanks (Contract No. 1) and the two motor-driven, sewage pumping stations (Contract No. 2).

Each proposal must be accompanied by a certified check, made payable to the Township of Pensauken, for a sum equal to 5% of the amount bid.

Plans and specifications are on file and may be seen at the office of the Township Clerk or at the office of the Engineers, Remington & Vosbury, 601 Market Street, Camden, N. J. Complete sets of plans and specifications may be obtained from the Engineers upon deposit of $20.00, of which $15.00 will be refunded upon their return in good condition by August 16th, 1922.

The Township reserves the right to reject any or all bids.

ROBERT V. PEABODY,
Township Clerk.

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Engineering News-Record's circulation—over 30,000 weekly—is the largest of any technical paper printed. It includes among its readers practically every contractor, dealer, and manufacturer in the country who is interested in bidding on public works contracts—either local or outside of his immediate vicinity.

Bids: Aug. 10.

Cast Iron Water Pipe or Steel Water Pipe

Poughkeepsie, N. Y.

Sealed proposals will be received by the Board of Public Works at its offices in Eastman Park Mansion on or before 4 p.m. (Daylight Saving Time), Thursday, August 10th, 1922, for furnishing Cast Iron Water Pipe and Specials, or Steel Water Pipe and Specials.

Specifications, form of proposal, bond and contract may be obtained at the office of the Superintendent of Public Works, Poughkeepsie, N. Y., and at the office of Hazen, Whipple and Fuller, Consulting Engineers, 30 East 42nd Street, New York City, upon the deposit of Ten ($10.00) Dollars, which amount will be refunded upon he return of the specifications in good condition.

The materials to be furnished are as follows:

Approximately 2,589 Tons of 20"-24" and 30" Cast Iron Bell and Spigot Pipe.
Approximately 165,000 lb. Bell and Spigot Standard Specials.

AND AS AN ALTERNATE TO THE ABOVE

Approximately 20,680 lineal feet of 24" Steel Pipe ⅜" thick.
Approximately 250 lineal feet of 30" Steel Pipe ⅜" thick.
Approximately 9,000 lbs. of Cast Steel Saddles and Fittings.

The proposal shall be accompanied by a certified check drawn upon an incorporated State or National Bank or Trust Company in good credit, within this State, payable to the order of the City of Poughkeepsie for five per cent of the amount of the bid. The successful bidder will be required to give a satisfactory bond for the faithful performance of the agreement in amount equal to fifty per cent of the value of the contract.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.

THOMAS F. LAWLOR, Supt.

HAZEN, WHIPPLE & FULLER,
Consulting Engineers,
30 East 42nd Street,
New York City.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Hydro-Electric Project

Dotham, Ala.

Sealed proposals will be received by the Mayor and City Council of the City of Dothan, Alabama, until 2 o'clock p.m., Tuesday, August 15th, 1922, for constructing a Hydro-Electric Project with appurtenances, and furnishing materials and equipment, at High Bluff on the Choctawhatchee River about eight (8) miles from Hartford, Ala., in sections 9 and 4 of township 2N, Range 23E, Geneva County, Alabama. The work consists of the construction of an earth dam, a concrete spillway, abutments and power house, and the furnishing and placing of machinery.

The principal approximate quantities involved are the following:

51,000 cu.yds. of excavation.
380,000 cu.yds. of embankment.
18,500 cu.yds. of concrete of different classes.
1,900,000 pounds of reinforcing steel.
354,000 pounds of structural steel work.

Turbines, generators, transformers and auxiliary power house equipment for a present installation of approximately 3,000 bhp. capacity in two units.

A transmission line twenty-one and one-half (21½) miles long at 44,000 volts pressure.

Plans and specifications are on file at the office of the City Clerk at Dothan, Alabama, and at the office of The Ludlow Engineers at Winston-Salem, N. C., where they may be examined by prospective bidders.

Copies of the plans covering the construction details of this project and two copies of the specifications attached to the form of proposal and contract will be furnished by The Ludlow Engineers, Winston-Salem, N. C., upon application by prospective bidders accompanied by a check for twenty-five ($25.00) dollars to cover the cost, or, separate prints, and extra copies of specifications and form of proposal, etc., at one ($1.00) dollar each.

Each bid must be accompanied by a certified check for approximately five (5%) per cent of the bid.

Proposals will be received at the City Hall, Dothan, Alabama, and opened publicly wih the right reserved to accept any bid or to reject any or all bids as the best interests of the City may appear.

Plans and supervision by THE LUDLOW ENGINEERS, INC. Winston-Salem, N. C.

E. O. JONES, Mayor.
R. W. LISENBY, City Clerk.

Bids: Aug. 23.

Pipe Sewers and Disposal Works

Rye, N. Y.

Sealed proposals will be received and opened publicly by the Trustees of the Village of Rye, N. Y., at the Village Municipal Hall, at 8.15 p.m., August 23rd, 1922.

Said proposals to cover construction (both materials and labor included) of certain pipe sewers and disposal works, according to plans and specifications filed with the Village Clerk.

Copies of plans and specifications may be seen also at office of City-Wastes Disposal Co., 45 Seventh Ave., New York City. Sets may be borrowed upon deposit of $15 of which $10 will be refunded if papers are returned in good condition before Sept. 1st., 1922.

Approximately the proposed work consists of:

About 29,000 feet of 8-inch and 600 feet of 15-inch vitrified pipe sewers, with manholes and flushtanks, much of it in rock excavation;
About 6,600 feet of iron pipe sewers, siphons and force-mains, 8-inch to 16-inch;
An indeterminate amount of drain-tile laid in sewer trench;
Sewage tanks, sprinkling filters and sand-beds, with appurtenances.

Each bid must be made on blank forms obtained from the Village Clerk or the Engineer, and must be accompanied by a certified check for $10,000 as a guarantee of good faith.

The Village reserves the right to reject any or all bids.

WILLIAM H. SELZER,
Village Clerk,
Rye, Westchester Co., N. Y.

G. EVERETT HILL,
Engineer,
45 Seventh Ave., New York.

OFFICIAL PROPOSALS

Bids: Aug. 16.

Steel Tower Tank

Sayreville, N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Sayreville, N. J., at the Borough Council Chambers, Borough Hall, in the Borough of Sayreville on the 16th day of August, 1922 at the hour of 8 o'clock P. M., Daylight Saving Time and 7 o'clock P. M., Standard Time, for furnishing of 100,000 gallon steel tank on a tower sixty (60) feet high to the balcony, and erecting on foundations to be provided by the Borough of Sayreville.

All of said work to be done in accordance with the specifications prepared by Waldo S. Coulter, Consulting Engineer, 114 Liberty Street, New York, N. Y., and which said specifications were adopted by the Borough Council of the Borough of Sayreville, the meeting held Wednesday, March 15, 1922, which said specifications are now on file in the office of the Borough Clerk, Borough Hall, Sayreville, N. J., where they may be seen by bidders or a set of said specifications can be obtained from Waldo S. Coulter, Consulting Engineer upon the payment of two dollars ($2.00), which sai dsum of two dollars ($2.00) will not be refunded.

Each bidder shall submit with his proposal a drawing showing the sizes of the various members and the dimensions of the structure he proposes to furnish under this contract.

Each proposal must be in a sealed envelope and marked, "Proposal for Steel Tower Tank." Each bid must be accompanied by a certified check for five hundred dollars ($500) made payable unconditionally to the Treasurer of the Borough of Sayreville, which check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award, enter into contract with the Borough of Sayreville for the performance of the work, and will also provide a Surety Company bond to be approved by the Borough Attorney in the sum of five thousand dollars ($5,000) for the faithful performance of the said contract.

The Mayor and Borough Council reserve the right to reject any and all bids.

The erection and construction of said steel tower tank must be completed within 150 consecutive working days from the date of the signing of the contract.

EDWARD E. CLARK,
Mayor.

Attest:
FRANK P. KOLB,
Borough Clerk.
Approved:
THOMAS H. HAGERTY,
Borough Attorney.

Bids: Aug. 7.

Village Hall

Pelham Manor, N. Y.

NOTICE is hereby given that the Board of Trustees of the Village of Pelham Manor will receive sealed proposals up to 8.30 p.m., Aug. 7, 1922, for the construction of an extension to the Village Hall, in said Village, at which time bids will be opened, at the said Village Hall and the contract awarded. Copies of the Plans, Specifications and Bid Sheet may be had from Electus D. Litchfield & Rodgers, Architects, 477 5th Avenue, New York City or from the undersigned Village Clerk. Estimated cost of work $45,000.

All bids must be on the form attached to the Specifications and must be accompanied by a certified check to the order of the Village of Pelham Manor for 5 per cent of the amount of the bid, said check to be retained by the Village in the event of the bidder failing to enter into a contract within 10 days after acceptance of bid. The Board reserves the right to reject any and all bids.

LIVINGSTON LEEDS,
Village Clerk,
Pelham Manor, N. Y.

Dated: July 6th, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 16.

Cast Iron Water Pipes

Sayreville, N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Sayreville, N. J., at the Borough Council Chambers, Borough Hall, in the Borough of Sayreville on the 16th day of August, 1922 at the hour of 8 o'clock, P. M., Daylight Saving Time and 7 o'clock, P. M., Standard Time for the furnishing of one hundred forty-six (146) tons 4 Inch cast iron pipe, hub and spigot ends, Class "B"; twelve hundred ninety-three (1293) tons 6 Inch to 18 Inch Cast Iron Pipe, hub and spigot ends, classes "B" and "C", and twenty-four (24) tons special iron castings. All pipe and special castings to be manufactured in accordance with Am. W. W. Assn. specifications. All proposals shall state the price per ton of 2,000 pounds, Sayreville, N. J.

All of said bids shall be in accordance with the specifications prepared by Waldo S. Coulter, Consulting Engineer, 114 Liberty Street, New York, N. Y., which said specifications were adopted by the Borough Council of the Borough of Sayreville at the meeting held on Wednesday, March 15, 1922, which said specifications are now on file in the office of the Borough Clerk, Borough Hall, Sayreville, N. J., where they may be seen by bidders, or a set of said specifications can be obtained from Waldo S. Coulter, Consulting Engineer, upon the payment of two dollars ($2.00), which said sum of two dollars ($2.00) will not be refunded.

Each proposal must be in a sealed envelope and marked "Proposal for Cast Iron Pipe." Each bid must be accompanied by a certified check for four thousand dollars ($4,000) made payable unconditionally to the Treasurer of the Borough of Sayreville, which check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award, enter into contract with the Borough of Sayreville for the furnishing of the said cast iron pipe and special castings, and will also provide a Surety Company Bond to be approved by the Borough Attorney in the sum of Thirty thousand dollars ($30,000) for the faithful performance of the contract.

The furnishing of said cast iron pipe and special castings shall be completed within 150 days from the date of the signing of the contract.

The Mayor and Borough Council reserve the right to reject and and all bids.

EDWARD E. CLARK,
Mayor.

Attest:
FRANK P. KOLB,
Borough Clerk.

Approved:
THOMAS H. HAGERTY,
Borough Attorney.

OFFICIAL PROPOSALS

Bids: Aug. 4.

Bridge Superstructure, Machinery and Electrical Equipment

Seattle, Wash.

Sealed proposals will be received by the Board of Public Works of the City of Seattle, up to 10 o'clock a.m., Friday, August 4th, 1922, in room 234, County-City Building, for the fabrication and erection of the Super-structure, Machinery and Electrical Equipment of a Steel Bascule Bridge and two Side Spans over the West Waterway at West Spokane Street, under authority of Ordinance No. 43397.

The structure will comprise a double-leaf bascule span 288 feet center to center of trunnions, 2 approach spans each about 140 feet long and a steel girder span about 136 feet long. The width of the bascule span will be 45 feet center to center of trusses and of the side spans 52 feet center to center of trusses, and of the girder span about 40 feet.

No proposal will be considered except as same is made strictly in conformity with the advertisement therefor and upon the forms of proposals furnished by the Board of Public Works, bound together with the specifications, general clauses and form of contract which must be submitted unbroken and unaltered in every particular.

This improvement shall be made in accordance with the respective plans and specifications now on file in the offices of the Secretary of the Board of Public Works and the City Engineer, respectively.

The successful bidder will be required to file with the City Comptroller a bond in the sum specified in the specifications.

Each bid must be accompanied by money, a satisfactory surety company bid bond approved by the Mayor and City Comptroller as to sufficiency and the Corporation Counsel as to form, or a certified check payable to the order of the City Comptroller of the City of Seattle for a sum not less than five (5) per cent of the total amount of bid, and no bid will be considered unless so accompanied.

A deposit of Ten Dollars ($10.00) will be required for each set of plans and specifications, which will be returned upon return of the plans in good order.

Special attention of bidders is called to the State Law and City Charter regarding the number of hours constituting a day's work, minimum wage scale, American citizenship and heads of families.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.

C. B. BAGLEY,
Secretary.

First publication June 20, 1922.

WHY CALL A PIANO TUNER
WHEN A DOCTOR IS WHAT YOU WANT?

¶The daughter of a neighbor of mine seriously injured her leg. False pride kept her from calling a physician. ¶Finally the mother's pleadings prevailed and she agreed to be administered to by a very gentlemanly-looking chap who daily passed the house, kit in hand. ¶A vigil was kept and on his next appearance he was called—literally dragged—into the house. ¶Telling him nothing about the case, the injured limb was brought to view and he was asked what he would do about it. He replied: "I think I should call a doctor." "But aren't you a doctor?" he was asked. "No, I'm a piano tuner." ¶Just because a man has a general insurance man's kit is no sign he can handle a Contract Bond properly. ¶Why call a piano tuner when a doctor is what you want? Swart Contract Bond Service is highly specialized—and costs no more.

Swart Service Really Serves!
HARMON V. SWART
Contract Bonds Compensation Insurance
92 William Street, New York

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS

The contractor who seeks to save a small fee by asking a friend to sign his bond sacrifices his independence.

ÆTNA CASUALTY AND SURETY COMPANY

HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Aug. 8.

State Highway Work

Baltimore, Md.

Sealed proposals for building nine sections of State Highway, as follows:

ALLEGANY CO. Cont. A-21—One section of State Highway from Cumberland towards Oldtown, for a distance of 3.0 miles. Concrete.

FREDERICK CO. Cont. F-51—One section of State Highway from Libertytown toward New Windsor for a distance of 2.0 miles. Concrete.

HOWARD CO. Cont. HO-24—One section of State Highway from West Elkridge toward Pfeiffer's Corner for a distance of 2.0 miles. Alternate bids concrete and gravel.

ANNE ARUNDEL CO. Cont. AA-20—One section of State Highway from Jacobsville toward Lakeshore for a distance of 1.0 mile. Concrete.

PRINCE GEORGE CO. Cont. P-38—One section of State Highway from Riggs School toward Hyattsville, a distance of 1.0 mile. Concrete.

PRINCE GEORGE CO. Cont. P-33—One section of State Highway from end of Contract P-24 toward Ashton, for a distance of 1.0 mile. Concrete.

CHARLES CO. Cont. CH-20—One section of State Highway from end of Contract CH-17 toward Lyons Corner, a distance of 2.0 miles. Gravel.

ST. MARYS CO. Cont. SM-18—One section of State Highway from Harpers Corner toward Laurel Grove, a distance of 2.5 miles. Gravel.

DORCHESTER CO. Cont. D-26—One section of State Highway from end of Contract D-24 toward Lloyds, a distance of 1.0 mile. Concrete.

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M., Standard Time, on the 8th day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 20th day of July, 1922.

JOHN N. MACKALL,
Chairman.

L. H. STEUART, Secretary.

Bids: Aug. 14.

Dam Construction

Newburgh, N. Y.

Sealed proposals will be received by the City Manager of Newburgh, N. Y., for the construction of dams at Silver Stream until 12 o'clock, noon, Monday, August 14.

The work comprises the construction of two adjoining dams, the total length of which is about 1,200 feet. The easterly dam is to be of earth with a concrete core wall, concrete spillway, small gate house and superstructure with a 48-inch blow-off pipe. Alternate bids are asked for the west dam, for earth embankment, with concrete core wall and also with a reinforced concrete center section to take the place of the earth embankment in the dam.

A certified check of $5,000 is required with each bid. A deposit of $15 is required for each set of plans and specifications, $10 of which will be returned upon the return of the plans and specifications.

Information regarding plans and specifications, etc., may be obtained at the offices of George W. Fuller and James C. Harding, 170 Broadway, New York City, and at the office of the City Engineer, at the City Hall, Newburgh, N. Y.

W. JOHNSTON McKAY,
City Manager.

WANTED—TO SUBLET

40,000 square yards of Waterbound Macadam. State Highway work—Western North Carolina. Equipment installed and operating. May be bought or sold to responsible parties only.

W-653, Engineering News-Record,
509 Real Estate Trust Bldg., Phila.

OFFICIAL PROPOSALS

Bids: Aug. 10.

Filter Equipment and Superstructure

Benton Harbor, Mich.

Sealed proposals will be received on Aug. 10, 1922, at 1:30 p.m. (Central Standard Time) at the City Hall, Benton Harbor, Mich., for (a) piping and equipment for a two million gallon per day water softening and purification plant and also for (b) a two-story brick and concrete superstructure. Independent proposals may be made for A and B but no further subdivision will be permitted. Plans and specifications may be obtained on and after July 26, 1922, upon deposit of fifteen dollars ($15) from Pearse, Greeley & Hansen, 39 W. Adams Street, Chicago, Ill. They may also be examined at the office of City Manager, in Benton Harbor.

GUY TYLER, City Manager.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, BALTIMORE, MD., Sealed proposals will be received here until 1 p.m., daylight saving time, August 21, 1922, and then opened for dredging in Baltimore Harbor and Channels, Md. Further information on application.

DEPARTMENT OF THE INTERIOR UNITED STATES RECLAMATION SERVICE, Denver, Colo., Sealed proposals will be received at the office of the United State Reclamation Service, Klamath Falls, Oregon, until 2 o'clock p.m., August 12, 1922, and will at that hour be opened, for erecting timber turnout and check structures on the laterals of the Tule Lake Division, Klamath project, involving about 3,000 cubic yards of excavation, the erection of about 151,000 feet B.M. of lumber, the placing of about 3,700 linear feet of 18-inch diameter metal pipe, and the installation in the structures of about 29,000 pounds of gates and other metal work. The work is situated about twenty-two miles southeast of Klamath Falls, Oregon, in Township 48 North, Ranges 4 and 5 East, M.D.M. For particulars address the United States Reclamation Service, Denver, Colorado, or Klamath Falls, Oregon. R. F. Walter, Acting Chief Engineer.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y. Sealed proposals will be received here until 12 m., August 7, 1922 (daylight saving time), and then opened, for dredging and rock removal in Bronx River, N. Y. Further information on application.

DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., July 18, 1922. Sealed proposals for furnishing motors, transformers and switching apparatus for the Valley Drainage Pumping Plant, Yuma Project, Arizona, will be received at the office of the United States Reclamation Service, Denver, Colorado, until 2 o'clock p.m., September 6, 1922, and will then be opened.

For particulars address the United States Reclamation Service, Washington, D. C., Denver, Colorado, or Yuma, Ariz. A. P. Davis, Director.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 18, 1922.—SEALED PROPOSALS will be opened in this office at 3 p.m., August 22, 1922, for construction of the United States Post Office at Spanish Fork, Utah. Drawings and specifications may be obtained from the custodian of the site at Spanish Fork, Utah, or at this office in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

UNITED STATES ENGINEER OFFICE, NORFOLK, VA.—Sealed proposals will be received here until 12 m., August 23, 1922, and then opened, for dredging on the 40-foot channel, Norfolk Harbor, Va. Further information on application.

PROPOSALS FOR CEMENT.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals for furnishing and delivering about 7,000 sacks of Portland Cement will be received at this office until 11 a.m., Aug. 1, 1922, and then opened. Further information on application.

U. S. GOVERNMENT

UNITED STATES ENGINEER OFFICE, Duluth, Minn., July 14, 1922. Sealed proposals will be received here until 10 o'clock a.m., August 14, 1922, and then opened, for constructing and delivering a steel derrick scow, complete with machinery and equipment. Further information on application.

U. S. ENGR. OFFICE, WILMINGTON, Del. Sealed proposals will be received here until 11 a.m., standard time, Aug. 15, 1922, and then opened, for excavating Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md. (Chesapeake and Delaware Canal). Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock a.m., Eastern Standard Time, August 15, 1922, and then opened, for rock removal in Stamford Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, Galveston, Tex. Sealed proposals will be received here until 12 M., Aug. 15th, 1922, and then opened, for dredging the Houston Ship Channel, Texas. Further information on application.

PROPOSALS FOR PONTOON CATAMARANS.—U. S. Engineer Office, 2d District, Portland, Ore.—Sealed proposals for 80 all steel pontoon catamarans will be received here unti 11 a.m., August 21, 1922, and then opened. Further information on application.

U. S. VETERANS' BUREAU, Office of the Director, Washington, D. C., July 15, 1922. Sealed proposals will be received at this office until 3 o'clock p.m., on September 1, 1922, and then opened, for the purchase of 2 complete York 100-ton refrigerating plants in U. S. Veterans' Hospital No. 42, Perryville, Md. The sealed envelope must be plainly marked "Proposal for purchase of refrigerating machinery to be opened at 3 p.m., September 1, 1922," and addressed to U. S. Veterans' Bureau, Room 1027, Arlington Building, Washington, D. C. A description of the equipment to be sold, conditions, etc., can be had on application to the Medical Officer in Charge, U. S. Veterans' Hospital No. 42, Perryville, Md. L. B. Rogers, Acting Director.

PROPOSALS FOR STEEL HULL.—U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 A. M., July 31, 1922, and then opened, for furnishing one steel hull for dipper dredge Upatoi. Further information on application.

PROPOSALS FOR STONE.—U. S. ENGINEER OFFICE, 329 Custom House, New Orleans, La.—SEALED PROPOSALS will be received here until 11 a.m., August 15, 1922, and then opened, for furnishing and delivering stone for Southwest Pass, Head of Passes and South Pass, Mississippi River. Further information on application.

U. S. ENGINEER OFFICE, 616 Army Building, New York City.—SEALED PROPOSALS will be received here until 11 a.m., Eastern Standard Time, August 19, 1922, and then opened, for dredging in Passaic River, N. J. Further information on application.

U. S. ENGINEER OFFICE, 815 Witherspoon Bldg., Philadelphia, Pa. Bids are wanted until Aug. 7, 1922, for dredging in Delaware River in front of Camden, N. J. Further information on application.

DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., July 18, 1922.—Sealed proposals for the construction of about 11 miles of main canal, Langell Valley Division, on the Klamath Project, Oregon-California, involving about 190,000 cubic yard of excavation, will be received at the office of the United States Reclamation Service, Klamath Falls, Oregon, until 2 o'clock p.m., August 31, 1922, and will at that hour be opened. The work is located about 25 miles east of Klamath Falls, Oregon, in Townships 40 and 41 South, Range 13 East, W. M. For particulars address the United States Reclamation Service, Washington, D. C., Denver, Colorado, or Klamath Falls, Oregon. A. P. Davis, Director.

SEARCHLIGHT SECTION

EMPLOYMENT—BUSINESS OPPORTUNITIES

Positions Wanted, 4 cents a word, minimum charge 75 cents an insertion.
Positions Vacant and all other classifications, 8 cents a word, minimum $2.

Box Numbers in care of any of our offices count as 5 words in addition to advertising copy.

Replies are forwarded each day as received at all of our offices without additional charge.

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THE ABOVE RATES ARE FOR ADVERTISEMENTS SET UNDISPLAYED. FOR DISPLAY RATES SEE "EQUIPMENT" HEADING.

E. N. R.

POSITIONS VACANT

BRIDGE designer wanted for highway work; desirable age, 30-45; technical graduate preferred; experience, 5 years in responsible charge, or as designer. P-729, Eng. News-Record.

DRAFTSMEN, at least two years' structural, mechanical, topographical or electrical drafting experience required; $1,800 per annum to start; preference to technical graduates; give full particulars as to experience, age and nationality in first letter. P-675, Eng. News-Record.

DRAFTSMEN, structural steel, wanted for detailing and checking steel work for buildings, conveyors, tanks and general steel work. Permanent position for men who can make good. Submarine Boat Corporation, Box 456, Newark, New Jersey. Phone Mulberry 4300.

DRAFTSMAN, civil engineering, with experience on structural steel and concrete design, general maintenance work for public utilities; give full details of education and experience, together with salary required in first letter. P-722, Eng. News-Record.

DRAFTSMAN, ornamental; stairway work a specialty. Roanoke Iron Works, Roanoke, Va.

DRAFTSMEN—Experienced structural steel detailers wanted. Apply to the Boston Structural Steel Co., Cambridge, Mass.

FIRST-CLASS structural steel detailers and checkers with experience on mill buildings, office buildings, etc. Position in Pittsburgh district. State experience and salary desired. P-525, Eng. News-Record, Leader-News Bldg., Cleveland, O.

FIRST-class structural steel detailer, all around man, experienced only. Apply Room 1946, Grand Central Terminal, New York City.

POSITIONS VACANT

GRADUATE assistant in civil engineering, to assist in hydraulics and materials laboratory, surveying and mechanics. Opportunity graduate work. Salary $900.00, ten months. Box 67, New York University, Bronx, New York.

POSITION open for four expert structural draftsmen. Apply to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., stating in detail experience and salary acceptable

STRUCTURAL steel draftsmen and checkers, experienced in making shop details for structural work as applied to buildings; state age, experience; nationality, salary expected, and when you could report for work here; permanent positions for experienced men. Barber & Ross, Washington, D. C.

WANTED
HUSTLING YOUNG MAN
By well-known investment house, with technical training, capable of investigating and reporting on all kinds of public utilities and their financing. He must show distinct capability in ferreting out and originating new propositions and must state in detail his ability along these lines. Salary and future limited only by result.
P-732, Engineering News-Record,
10th Ave. at 36th St., New York City

We have good opportunity for man

28 to 35 years of age in our Contract Bond Department. Requirements: Engineering education, at least 5 years active experience in construction work (the more varied the better), good personality, and ability to talk convincingly. This position involves much traveling and preference will therefore be given single man. Not a high-salaried position at start but opportunity for advancement is good. In replying state age, education, whether married or single, complete experience giving account of actual duties performed each job or organization, salary received in each position, and references. Interview can be arranged in any large city. Address,

E. W. BUSH, Engineer,
The Ætna Casualty and Surety Company,
Hartford, Connecticut.

POSITIONS VACANT

WANTED draftsman, two men with one to three years' experience in drafting room, to make structural steel shop details and one experiencd tracer. Apply St. Paul Foundry Co., Mr. Goetz, St. Paul, Minn.

WANTED, by Hollinger Consolidated Gold Mines, Ltd., Timmins, Ont., 2 first class mechanical draughtsmen; must be experienced and competent in mine or mill design. Apply direct, giving full particulars and references.

WANTED—First class detailer and checker of structural steel for buildings and bridges. Apply Richmond Structural Steel Co., Richmond, Va.

STRUCTURAL ENGINEER

Graduate in Structural Engineering or man with experience on designing steel and reinforced concrete buildings. Chicago concern.

State clearly qualifications.

P-691, Engineering News-Record
1570 Old Colony Bldg., Chicago, Ill.

Construction Men

Learn "Line" and "Grade" by Actual Practice.

Level, Transit, and Plane Table Work.
"Running" of Farm, Stadia, Highway and Railroad Surveys.

Estimating

Day and evening courses. Booklet.

The Pan-American Engineering School
39 West 17th St., New York City

Norway's Technical Institute

A Professorship

in Wood, Stone and Iron-Concrete Bridges and in Iron-Concrete is to be filled as soon as possible. The salary is 10,000 kroner with 3 pay-increases of 1,000 kroner after 3, 6 and 9 years service. For the pension fund of the state is deducted 10% of 10,000 kroner.

The professor is obligated to accept the regulations which may be adopted with reference to the arrangement of pensions and age limit, and to accept without compensation such changes in the location of his chair as may be prescribed by law or by the King with the consent of the Storting. More detailed information with reference to his curriculum and duties, etc., may be had upon application to the Institute.

It is desired to fill the professorship with a Norwegian.

Applications for this position may be addressed to the King and sent to Kirke-og undervisnigs-departementet *until August 16th, 1922.*

WILSON ENGINEERING COURSES

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BY MAIL

Thousands of men owe their advancement to us. With the new graduate who has no experience in actual work, progress is slow and discouraging, and valuable years are lost in getting experience in a haphazard way. A WILSON course and two or three evenings a week for less than a year will give the ordinary man just the amount of training he needs to meet the everyday problems of the busy office.

Reinforced Concrete Engineering
Structural Steel Designing—Drafting in Steel or Concrete
BRIDGE ENGINEERING

Our courses are thorough and up-to-date. Easy terms of payment.

Educational requirements: Technical education, high school mathematics or their equivalent

Write for Literature

WILSON ENGINEERING CORPORATION
10 Broadway, Hanover, Mass.

POSITIONS VACANT

WANTED: A general superintendent for building construction in Western Massachusetts. One capable of organizing and handling all classes of building. Must be a good executive, capable of meeting and dealing with owners and architects. Unless able to give A-1 references, do not apply. J. R. Hampson & Co., Inc., Pittsfield, Mass.

WANTED—Young man with engineering experience to act as purchasing agent, keep time and run grades for small steam shovel work on state highway; state salary wanted, experience and when you can report; work in northern Pennsylvania. P-728, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

WANTED — District manager, mechanical engineer, for Pittsburgh district; one having experience with air washer field preferred; preference will be given to man living in Pittsburgh with good acquaintance with trade; salary and bonus arrangement; this is an opening for a live wire, and must be willing to travel hard; give your complete history and state salary to start, also when available. P-721, Eng. News-Record.

WANTED—Young man with training and experience in setting piece work rates on handling heavy materials in open yard by common labor. Position offers opportunity to right man for permanent connection with large manufacturing concern. Answer by letter and give complete record of education, experience, references and starting salary. P-714, Eng. News-Record.

WANTED—Engineer designer and draftsman on municipal work; capable of designing and making complete plans for improvements and utilities, especially for town under ten thousand; only a man of age, qualifications and salary expected thorough experience considered; state in first letter; location in Southern States. P-730, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

In Replying to "Blind" Ads

be careful to put on envelope the key number in the ad and also local address of office to which reply is sent.

10th Ave. at 36th St., New York.
509 Real Estate Trust Bldg., Phila.
533 Leader-News Bldg., Cleveland.
1570 Old Colony Bldg., Chicago.
531 Rialto Bldg., San Francisco.

Important

Original letters of recommendation or other papers of value should not be enclosed to unknown correspondents — send copies.

0195

POSITIONS VACANT

WANTED—First class detailer and checker of ornamental and miscellaneous iron works. Apply Richmond Structural Steel Co., Richmond, Va.

WANTED—General foreman, familiar with wet excavation and concrete foundation work. P-739, Eng. News-Record.

WANTED—Detailers and checkers wanted for office building work; experienced men on fabricated shop drawings only. New England Structural Co., Everett, Mass.

EMPLOYMENT AGENCIES

GENERAL ENGINEERING AGENCY, Pittsburgh serving employers everywhere overnight, gratis, requires executives and assistant, plant engineers, machinery and structural designers, checkers, detailers, architectural, industrial, municipal, railway engineers, draftsmen, transitmen, advertising, sales, appraisal engineers-accountants, instructors, professors; service commission 2½ per cent.

EMPLOYMENT SERVICE

A LEADING organization desiring to fill an important position, for obvious ethical and other reasons, cannot invite directly the candidacy of any particular man. Similarly, no well-connected man will exploit personally his own qualifications, no matter how receptive he may be to overtures. The undersigned has been retained by a national clientele for many years, as a medium for negotiating preliminaries in such cases. Your permission to send booklet discussing this problem and describing the service, will in no degree obligate or compromise you. Strictly confidential. R. W. Bixby, Inc., 304 Lockwood Building, Buffalo, N. Y.

PROFESSORS, assistant professors and instructors of technical and engineering subjects wanted immediately for colleges and universities; write fully; no advance charges. Educators' Department, H. H. Harrison & Co., Employment Service, 19 S. La Salle St., Chicago, Ill.

POSITIONS WANTED

Civil Engineers

B. S. 1918, C. E. 1922, age 26, Christian, American; two years' experience field, office; anything anywhere. PW-720, Eng. News-Record.

CIVIL engineer, American, technical graduate, 32, 8 years' Latin American experience, 2 years in the States, irrigation, railway surveys, and construction, roads, harbor improvements, sugar central erection and maintenance, capable executive, speaks Spanish, French. Box 215, Ridgewood, New Jersey.

CIVIL engineer, specialized in port and waterway construction and operation, operation boats, barges, steamships, qualified in technical and executive capacities; speaks English, French and Spanish; member American Society of Civil Engineers. Address 2411 Main St., Apartment 8, Houston, Texas.

CIVIL and mechanical engineer, technical education, Harvard and M. I. T., practical experience in construction and operation of heavy crushing machinery. A practical millwright and labor foreman. Three years' experience as assistant superintendent of manufacturing concern, also traveled in dormant seasons to obtain business. Will go anywhere. Salary $250 per month. PW-659, Eng. News-Record, Leader News Bldg., Cleveland, O.

CIVIL and sanitary engineer, graduate, 33, married, ten years' experience design and construction of municipal improvements and utilities; water supply, sewage disposal, land drainage and reclamation, town site and industrial plant layouts, and building construction, desires connection with contracting, engineering or industrial organization in which executive and sales ability will be of value. Excellent references. PW-680, Eng. News-Record, Old Colony Bldg., Chicago.

CIVIL engineer, M. I. T. graduate, age 30, five years' railroad, highway, building construction experience, desires position; any location. PW-708, Eng. News-Record.

CIVIL engineer, technical graduate, 17 years' experience design and supervision of construction steel and reinforced concrete bridges and buildings, railroads, municipal work, and as engineer, bridges and buildings for 400-mile electric railroad in charge maintenance and construction, desires position as chief engineer, general superintendent, manager or similar connection. PW-735, Eng. News-Record.

The Erie Employment & Supply Co.

8701 Union Ave., Cleveland, Ohio

Boarding Camps, and Commissaries, operated for Railroads, Manufacturers, Contractors, Coal Mines, etc. We furnish laborers, mechanics and all classes of skilled help. Employment offices at Cleveland, O., Cincinnati, O., Toledo, O., Columbus, O., St. Louis, Mo., Indianapolis, Ind., Chicago, Ill., Danville, Ill., and Buffalo, N. Y.

Construction News Correspondents
for Engineering News-Record

If you are a resident in one of the cities named below;

If you can spare an hour or two a day *during business hours* for calling upon architects, contractors, engineers, and city departments;

If you are conscientious and energetic;

If you want to earn some extra money;

Then write me concerning your qualifications and present connection, if you live in

Mobile, Ala.
Bisbee, Ariz.
Globe, Ariz.
Tucson, Ariz.
Pine Bluff, Ark.
Sacramento, Cal.
Trinidad, Colo.
Hartford, Conn.
Savannah, Ga.
Council Bluffs, Iowa
Dubuque, Iowa
Owensboro, Ky.
Paducah, Ky.
Carson City, Nev.
Newark, N. J.
Roswell, N. M.
Santa Fe, N. M.
Amsterdam, N. Y.
Binghamton, N. Y.
Cohoes, N. Y.
Gloversville, N. Y.
Poughkeepsie, N. Y.
Schenectady, N. Y.
Bismarck, N. D.
Grand Forks, N. D.
Cincinnati, O.
Ardmore, Okla.
Tulsa, Okla.
Astoria, Ore.
Medford, Ore.
Providence, R. I.
Aiken, S. C.
Charleston, S. C.
Greenville, S. C.
Sioux Falls, S. D.
Walla Walla, Wash.
Calgary, Alta.

Alden W. Welch
Engineering News-Record, 10th Ave. at 36th St., New York

EXECUTIVES

Engineers and men of proven ability seeking positions, find our service extremely satisfactory. Our Mr. H. H. Harrison can confidentially negotiate for you suitable connections, as he has successfully done for thousands of others since 1909. Inquiries invited.

The National Business Bourse, Inc.
Confidential Negotiators
Association Bldg., Chicago

POSITIONS WANTED

CIVIL engineer, graduate, 4 years' experience covering highway and reinforced concrete construction; available on short notice. PW-740, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

CIVIL engineer, 18 years' experience in design and construction of large works, will consider teaching mathematics, mechanics, hydraulics, or physics. PW-731, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

GRADUATE civil engineer of high calibre, ten years' broad experience, desires a connection with an industrial firm or contractor leading to an executive position; initial salary no object; prefer Eastern location; references exchanged. PW-717, Eng. News-Record.

GRADUATE civil engineer, 11 years' experience, desires position with industrial concern on new plant construction with prospect of becoming permanently connected with productive organization. Address Box 91, Narberth, Pa.

POSITION wanted by civil engineer, with 12 years' experience highway, railroad and building work; report immediately. Wire or write 671 Kilbourne St., Elkhart, Ind.

Designers and Estimators

DESIGN, estimate, sales. Graduate engineer, 31, experienced with structural steel fabricators, available immediately. New York interview requested. PW-684, Eng. News-Record.

ESTIMATOR, graduate C. E., 40 years of age, 18 years' experience in monumental, residential and industrial structures, A1 estimator of general building construction in all branches, including reinforced concrete, steel, carpentry and masonry, with knowledge of design and supervision, good correspondent, analyst and contract man, is open for engagement with responsible concern in Metropolitan district. PW-725, Eng. News-Record.

EXPERIENCED estimator and superintendent of large construction will accept position of responsibility at once; age 38, live organizer. Address XYZ, General Delivery, Winston-Salem, N. C.

CONSTRUCTION draftsman, graduate engineer, eleven years' experience, steel, concrete, surveying, factory construction. Take charge of work. PW-661, Eng. News-Record.

DRAFTSMAN-engineer, graduate, eight years' field and office experience. General construction, industrial, structural. Northern location. PW-677, Eng. News-Record.

DRAFTSMAN, Track, steam or street railway; 17 years' experience in track shops; will go anywhere; good mathematician; salary $110. PW-723. Eng. News-Record, Old Colony Bldg., Chicago.

Mechanical

MECHANICAL electrical engineer, technical graduate; wide experience design and installation electrical, mechanical and chemical apparatus, also plant efficiency and economical generation of power. PW-626, Eng. News-Record.

MECHANICAL engineer, 13 years' experience in factory equipment, layout installation and maintenance, familiar with boiler economy power generation and distribution in large manufacturing plants. PW-647, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

MECHANICAL engineer, 12 years' experience in construction and operation of public utility plants and factories; wide experience in organizing men, time and production study, and equipment development. PW-719, Eng. News-Record.

In Replying to "Blind" Ads

be careful to put on envelope the key number in the ad and also local address of office to which reply is sent.

10th Ave. at 36th St., New York.
509 Real Estate Trust Bldg., Phila.
533 Leader-News Bldg., Cleveland.
1570 Old Colony Bldg., Chicago.
531 Rialto Bldg., San Francisco.

Important

Original letters of recommendations or other papers of value should not be enclosed to unknown correspondents — send copies.

0195

POSITIONS WANTED

Structural

GRADUATE civil engineer; 10 years' experience designing, estimating and detailing reinforced concrete for contractors and bar companies; can take responsible charge of work. PW-634, Eng. News-Record.

STRUCTURAL engineer and designer, 18 years' experience, steel and reinforced concrete structures, industrial and commercial buildings. Engineer, 108 West Harris St., Savannah, Ga.

STRUCTURAL steel checker desires evening work; thoroughly experienced, office, loft, mill buildings and apartments. PW-701, Eng. News-Record.

STRUCTURAL engineer, tecchnical graduate, extensive experience in design, steel and reinforced concrete, industrial and commercial buildings, seeks position with engineering firm or consulting engineer. PW-697, Eng. News Record.

Superintendents

A CAPABLE young executive, with the broadest of experience covering all classes of construction work, specialized in building construction and difficult reinforced concrete work, seeks an opening with a reliable firm as general superintendent, or construction superintendent or engineer. Available on short notice; location immaterial. Phone Barclay 2645. Address Superintendent, c/o Kantor, 43 Murray Street, New York, N. Y.

ARCHITECT'S superintendent, experienced in all classes of public buildings and other high grade construction. PW-678, Eng. News-Record.

CONTRACTOR'S superintendent, fifteen years' experience all classes construction work, ballast, rubble, dimension stone quarries, masonry, earth dams, roads, filters, sewers. PW-686, Eng. News-Record.

ENGINEER and superintendent of construction, 16 years' experience. Railroad and highway location and construction, drainage, sewers, paving, industrial. To take responsible charge of engineering and supervision of construction. Broad experience. Go anywhere. Central America preferred. PW-681, Eng. News-Record, Real Estate Trust Bldg., Phila.

EXECUTIVE

I AM AN ENGINEER EXPERIENCED IN PLANNING AND EXECUTING LARGE INDUSTRIAL BUILDING PROJECTS.

MY EXPERIENCE HAS BEEN GAINED THROUGH NINE YEARS' ASSOCIATION WITH A FIRM WIDELY KNOWN FOR ITS EXCELLENT WORKMANSHIP AND EFFICIENT METHODS AND I HAVE HAD CHARGE OF OPERATIONS FROM CANADA TO TEXAS.

I DESIRE A PERMANENT CONNECTION WHERE ABILITY WILL BE RECOGNIZED.

PW-733, ENGINEERING NEWS-RECORD,
10TH AVE. at 36TH ST., NEW YORK CITY

POSITIONS WANTED

ENGINEER-SUPERINTENDENT, eighteen years' experience, 10 on eastern railroads, covering design, supervision and inspection on grade crossing elimination, third tracking, yards and docks, and m. of w.; three years private practice engineering and surveying, five years design supervision and construction highway bridges, foundations, open caissons, piling, etc. Not afraid of work and will go anywhere under the sun. Furnish engineering equipment. Present salary $3,600. Say something. PW-615, Eng. News-Record.

GENERAL building construction superintendent, at present in full charge of a large apartment development in New York City, open for a proposition with first class firm. Advertiser is high grade man who can successfully and profitably handle either field or office. Experience covers 20 years on all kinds of high class buildings; can work anywhere in United States. PW-641, Eng. News-Record.

GENERAL superintendent, construction manager; broad experience in general building construction; specialize in reinforced concrete construction, particularly in theatre, church and like intricate work; have practically completed the largest, unique and most complicated piece of reinforced concrete construction in the United States, "the three million dollar Grauman Theatre," Los Angeles, Cal.; reinforced concrete trusses of various designs are used; have had 2 years' field experience in hydro-electric construction, which includes both dam and power house work; familiar with costs, estimating, purchasing, contracts and organization; have an organization available; either domestic or foreign position considered; available on two weeks' notice. PW-630, Eng. News-Record, Rialto Bldg., San Francisco, Cal.

SUPERINTENDENT or carpenter foreman, 15 years' practical experience in building construction; pile driving; coffer dams; excavations, foundations; reinforced concrete, etc. PW-613, Eng. News-Record.

SUPERINTENDENT of asphalt pavements, 25 years' experience, wishes position. PW-738, Eng. News-Record.

Notice to Advertisers

We enlist your cooperation

—TUESDAY, AUGUST 1st—

is the date of the ANNUAL OUTING for employees of the McGRAW-HILL COMPANY, Inc.

To enable everyone to take part, both our office and print shop will be closed on this day.

Our papers must, however, come out on time and we accordingly ask your cooperation in furnishing copy earlier than usual. It should reach us as follows for the August 3rd issue of ENGINEERING NEWS-RECORD:

DISPLAY ADS—Copy required by 5 P.M. Friday, July 28th.

WANT ADS—Copy required by 10 A.M. Saturday, July 29th.

PROPOSAL ADS—Copy required by 5 P.M. Monday, July 31st.

POSITIONS WANTED

SUPERINTENDENT of construction will be open for position Aug. 15th; wide experience in all types of reinforcced concrete construction, office buildings and school work; can furnish complete organization; references from leading contractors in country. PW-698, Eng. News-Record, Leader-News Bldg., Cleveland, O.

SUPERINTENDENT. general foreman, road builder expert, concrete, macadam, brick paving. Now available; anywhere. Salary $200. Satisfaction assured. PW-676, Eng. News-Record, Leader-News Bldg., Cleveland, O.

SUPERINTENDENT fireproof building construction desires position; age forty; wide experience, north or south; good references; hustler; can report immediately. Address F., P. O. Box 99, Charlotte, N. C.

Miscellaneous

A GOOD carpenter foreman wishing connection with firm doing extensive reinforced concrete work; well experienced and good organizer; capable of taking full charge of job if necessary; age 29 and a hustler; best of references; will locate anywhere; available at once. PW-726 Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

To Employers Who Advertise for Men:

The letters you receive in answer to your advertisements are submitted by each of the applicants with the hope of securing the position offered.

When there are many applicants it frequently happens that the only letters acknowledged are those of promising candidates. Others do not receive the slightest indication that their letters have even been received, much less given any consideration. These men often become discouraged, will not respond to future advertisements, and sometimes even question if they are bona fide.

We can guarantee that *Every Advertisement Printed in the Searchlight Section Is Duly Authorized.* Now won't you help keep our readers interested in this advertising by acknowledging every application received, even if you only return the letters of unsuccessful applicants to them marked, say, "Position filled, thank you." If you don't care to reveal your identity, mail them in plain envelopes.

We suggest this in a spirit of helpful co-operation between employers and the men replying to Positions Vacant advertisements.

Searchlight Department
McGRAW-HILL CO., Inc.

Put Yourself in the Place of the Other Fellow"

6000

POSITIONS WANTED

A CAPABLE young executive with the broadest of experience covering all classes of construction work, specialized in industrial building construction, highway and municipal work, seeks a connection with a reliable firm as engineer or construction superintendent; available on short notice; location immaterial. PW-716, Eng. News-Record.

A SUCCESSFUL sales engineer and executive, now employed, desires connection where broad engineering experience combined with sales ability can be used to produce big results; thorough technical education and experience in steel, concrete, waterways, railroads, executive positions and sales. A producer not afraid of hard work. PW-636, Eng. News-Record.

BOSS rigger and erector, with 25 years' experience, 7 years with present firm, would like to make a change; go anywhere. PW-644, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

BUSINESS manager and chief estimator, formerly architectural engineer and superintendent of construction, shrewd buyer and cost-keeping accountant, seeks connections with reliable firm desiring the service of an executive of ability. PW-736, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

CHIEF accountant, office manager, American, age 33, desires position; 13 years' experience railway, highway, canal building and sugar mill construction in United States, Canada, France and Cuba; knowledge French and Spanish; thorough knowledge bookkeeping, office management, purchasing costs, etc. PW-642, Eng. News-Record.

CONTRACTORS' engineer for general work. Estimating, computing, accounting, and supervising work. Plans prepared. Fifteen years' experience. Graduate engineer. Prefer Eastern States. Highway and concrete work a specialty. PW-620, Eng. News-Record, Leader-News Bldg., Cleveland, O.

EXPERIENCED foreman looking for position, furnish large number of men necessary. James Greco, 159 Prince Street, New York City.

FOREMAN, experience street pavings, sewer work, foundations and building work. PW-689, Eng. News-Record.

LIVE general foreman highway construction, open position N. J., Penna., N. Y. State salary. PW-682, Eng. News-Record.

PRACTICAL man at railroad construction, installing of machinery, last 13 years government shipbuilding, want to make a change; good executive ability; tackle any kind of construction. Address G. J. M., 115 Ryerson St., Brooklyn, N. Y.

QUARRY or construction superintendent with a following of competent men wishes change. Familiar with the development and operation of large quarry operations and heavy construction. PW-700, Eng. News-Record.

REINFORCING steel and steel products manager. A sales engineer, with successful experience in above lines. Can take full charge for building material concern or bar company, marketing these goods. Past master in commercial design. PW-693, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

TECHNICAL graduate, 28, wants permanent position; five years' varied experience, civil and mechanical engineering; draftsman and computer; salary $175. PW-718, Eng. News-Record.

YOUNG MAN, 26, commercial and I. C. S. surveying graduate; five years' experience on surveying corps, railroad, city and building construction; two years engineer, A. E. F.; two years laborer and foreman; wants permanent position with reasonable chance of advancement; open to any proposition; location immaterial. PW-737, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

POSITIONS WANTED

SALESMAN and engineer, age 34, married, desires position as salesman with steel fabricating company or manufacturer of building specialties. Five years' contracting engineer and district sales manager for structural steel company and warehouse. Eleven years draughtsman, estimator and structural engineer structural steel, reinforced concrete and general construction. Location immaterial. Present location South. PW-702, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

YOUNG man with nine years' experience, railroad and highway surveys and map drafting, at present studying steel and concrete construction, desires position in architect's or engineer's office, with opportunity to advance. Salary of secondary importance. PW-710, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

EXTRA WORK WANTED

CIVIL engineering service, plans, surveys, design, computations, etc. H. F. Stimm, Snyder, N. Y.

EXTRA—Engineering work solicited; designing, planning, estimating; computations and drawings. Competently and promptly executed. Mazeau, 1203 Fulton Ave., New York City.

STRUCTURAL engineer, experienced designer and detailer; can take care of more work; competent, quick service. XWW-724, Eng. News-Record.

TUTORING

CIVIL engineer teaches arithmetic, algebra, geometry, trigonometry, draughting, mechanical, structural surveying, building construction; prepares engineering positions. Mondell, 50 E. 42d St., N. Y.

OFFICE SPACE FOR RENT

Wanted—Engineer

To share architect's office. Splendid light, complete services. Suite 1211, 105 West 40th St., New York. Tel. Bryant 3231.

Architect or Contractor

Can have space in engineer's suite—$35 monthly. OSR-715, Eng. News-Record.

BOOKS AND PERIODICALS

Periodicals for Sale

Bound volumes of *Engineering News*, January, 1907, to March, 1917, and unbound volumes *Engineering News-Record*, April, 1917, to date; first check for $30 takes them. Ralph Gibson, 21 Vanderheyden St., Glens Falls, N. Y.

PATENT ATTORNEYS

PATENTS—Send for form "Evidence of Conception" to be signed and witnessed. Form fee schedule, information, free. Lancaster and Allwine, 262 Ouray Bldg., Washington, D. C.

CHICAGO DEALER

With established office and calling on building and road contractors wants Chicago or Illinois territory agency for equipment used in building or road construction. Will carry stock if necessary.

AS-692, Engineering News-Record, Old Colony Bldg., Chicago, Ill.

BUSINESS OPPORTUNITIES

Blue Print Company

at Laredo, Texas, for sale; cash or terms; good opportunity for engineer; party in charge now has to leave. Apply Alamo Blue Print Company, San Antonio, Texas.

Established Blue Print Business

in large Eastern city; modern equipment; reason for selling: sickness; will consider partner. BO-727, Eng. News-Record.

New Building Methods

One, "The Universal Monolithic Builder," a Machine Process for building hollow concrete walls at low cost also a Steel Panel Knock-Down Building Method for making warehouses, garages, at bottom cost; want licensees under patents, manufactuers and organization handling. BO-671, Eng. News-Record.

Splendid Opportunity

For a responsible firm to manufacture and place in Canada a patented concrete road finishing machine universally used in United States; in replying send references. Macon Concrete Roller Company, Macon, Ga.

FOR SALE

Five Baker Maney Wheelers

For sale; all in good condition. Wm. D. Kelly, R. R. 4, Frankfort, Ind.

NEW AND USED SURVEYING INSTRUMENTS AT FACTORY PRICES

Satisfaction guaranteed or money refunded. Write for complete list and catalogue of our high grade instruments and supplies for civil engineers, surveyors, mining, builders, contractors, etc.; 40 years' experience in repairing instruments of all makes at reasonable prices. Prompt service.

WISSLER INSTRUMENT CO.
607 N. Broadway, St. Louis, Mo.

Second-Hand Transits and Levels

Guaranteed in Good Order and Adjustment

Write for New Bargain List

WILLIAMS, BROWN & EARLE, INC.
918 Chestnut St., Philadelphia, Pa.
Department D

FOR RENT

PAVER

1—Four Bag Lakewood, boom and bucket. Complete with Batch Meter and Batch Transfer Derrick.
Good Condition. Available July 15th.

75—Four Bag Lakewood Batch Boxes.
122,000 ft. Lakewood Heavy Duty Track.
Available Immediately.

MICHAEL STAUB
Pitman, N. J.

EXCAVATION

Steam Shovels for rent with crews or work taken by contract.

Dinkeys and cars or teams furnished.

H. C. AMBLER
3717 Old York Road, Philadelphia, Pa.

Steam Shovel for Rent

¾-yd. Thew Shovel in fine condition.

Located at Corning, N. Y.

JAS. S. BRADEN, 30 Church St., N. Y.

BUSINESS OPPORTUNITY

An opportunity is offered to men of proven ability to join the advertiser in the organization of a Construction Company and the reorganization of several Chartered Railroads; and a Water Power Plant, outside the State of New York. The mileage of the railroads are over 100 miles. To men qualified by past experience and possessing from $5,000 to $10,000 to invest, we can offer a most profitable opportunity. No replies considered unless accompanied by references that will stand investigation.

BO-665, Engineering News-Record, 10th Ave. at 36th St., New York City.

WANTED

WANTED

HYDRAULIC PRESS

1000-ton or larger; clearance about 4 ft. between uprights and 10 ft. between heads. Must be in good condition.

W-711, Engineering News-Record
1570 Old Colony Bldg., Chicago

WANTED

STEEL PILING

344 pieces 20 to 28 ft. long.

Can use longer lengths if condition permits cutting to approximate desired lengths.

W-712, Engineering News-Record
1570 Old Colony Bldg., Chicago

Wanted to Rent, or Buy, a Used

Keystone Excavator

No. 4, must be in good condition; give shop number and condition, where same can be inspected and price in first letter.

W-742, Engineering News-Record,
10th Ave. at 36th St., New York City.

WANTED

1—2-yd. **Orange Peel Bucket.**
1—1½-yd. full **Revolving Shovel.**
1—21-E Paver full length **Caterpillar Traction.**
1—36-in. Gage 11 x 16 **Locomotive.**
1—10-ton, 3-wheel **Road Roller.**
10—4-yd., 36-in. gage **Dump Cars.**
2—20 to 25-ton Std. Gage **Locomotives.**

J. T. WALSH,
514 Brisbane Bldg., Buffalo, N. Y.

WANTED—SECOND HAND

AIR COMPRESSOR

Cylinders 8 in. x 6 in., capacity 140 cu. ft. per minute.

AUNT JEMIMA MILLS COMPANY.
St. Joseph, Mo.

TO HELP YOU

GET WHATEVER YOU NEED

"Searchlight" Advertising

G-4

"SEARCHLIGHT" *Service Is for You, Too*

IT is to help you whenever you have a business want. It insures you, at an extremely small cost, the quickest and most effective delivery of your message to the men in this field who are most likely to be interested in your needs. *Try it.* Learn what "SEARCHLIGHT" really means to YOU.

Agencies Wanted
Agents Wanted
Auction Notices
Bids Wanted
Books and Periodicals
Buildings For Sale
Business Opportunities
Civil Service Opportunities
Contracts-to-be-let
Contracts Wanted
Desk Room For Rent
Desk Room Wanted
Educational
Employment Agencies
Foreign Business
For Exchange
For Rent
Franchises
Help Wanted
Industrial Sites
Labor Bureaus
Machine Shops
New Industries Wanted
Partners Wanted
Patent Attorneys
Patents For Sale
Plants For Sale
Positions Vacant
Positions Wanted
Property For Sale
Proposals
Receivers' Sales
Representatives Wanted
Salesmen Wanted
Specialties
Sub-Contracts Wanted
Water Front Property
Work Wanted

For Every Business Want

Think "SEARCHLIGHT" First

0170